Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

Values at bold stations need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

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Impacts should not be assigned for undetect values. The use of urdetects, coupled with multiplier factors should also not occur.

(Note: numerous values are also assigned to higher levels than they should be due to multiplier factors. These are not identified here yet.)

	Station																								
Parameter	HY-1	HY-2	**HY-3**	HY-4	**HY-5**	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	**HY-12**	HY-13	HY-14	**HY-15**	**HY-16**	HY-17	**HY-18**	**HY-19**	**HY-20**	**HY-21**	**HY-22**	HY-23	HY-24	HY-25	HY-26
Ag																										
As																									5%	
BBPH																***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*10%*	*5%*	*5%*	
BEPH																								*5%*		
Cd																										
Cr																										
Cu																										
DDD																										
DDE																									*5%*	*5%*
DDT																					***5%***					
DEPH																*5%*					*5%*			*5%*		
DMP																										
DMPH																								*5%*		
DOPH																										
HCB			***5%***	*5%*	***5%***	*5%*	*5%*	*5%*	*10%*	*5%*	*5%*	***5%***			***5%***	***5%***			***5%***	***5%***	***5%***					
HCBD	*5%*	*5%*	***5%***		***5%***	*10%*	*15%*	*15%*	*15%*	*5%*	*5%*	***5%***	*5%*	*5%*	***5%***	***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*5%*	*5%*		
Hg								5%							***5%***	***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	5%	5%	5%	5%
MDCB																										
Ni																										
PAHs	*20%*	*20%*	***60%***	*20%*	***40%***	*40%*	*20%*	*40%*	*20%*	*40%*	*20%*	***40%***	*20%*	*20%*	***40%***	***20%***	*20%*	***40%***	***60%***	***40%***	***40%***	***40%***	*40%*	*60%*	*60%*	*40%*
Pb																										
PCBs		*20%*	***5%***	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	***20%***	*5%*	*20%*	***20%***	***20%***	*20%*	***20%***	***20%***	***20%***	***20%***	***20%***	*20%*	*20%*	*20%*	*20%*
PCP	5%	5%	5%	5%	5%	5%	5%	5%	20%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																										
Sb																										
TBT			***5%***						*5%*	*5%*				*5%*		***5%***		***5%***	***5%***	***5%***	***5%***			*5%*	*5%*	*5%*
TCB					***5%***	*20%*	*5%*	*20%*	*10%*	*20%*	*5%*	***5%***							***5%***		***5%***					
Zn																***5%***										

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

Values at bold stations need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

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Parameter	HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	**1117**	1118	1119	1120	1121	**1122**	1123	1124	1125
Ag																								
As				5%	5%				5%							**10%**					**10%**			
BBPH	*5%*	*5%*	*5%*	*20%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*			*5%*	*5%*	*5%*	***10%***				*5%*	***5%***			
BEPH		*5%*		*5%*			*5%*																	
Cd																								
Cr																								
Cu							5%																	
DDD		*5%*																						
DDE		*5%*																						
DDT																								
DEPH			*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*
DMP						*5%*																		
DMPH						*5%*				*5%*			*5%*	*5%*	*5%*					*5%*	***5%***			
DOPH																***5%***								*5%*
HCB																								
HCBD				*5%*	*5%*			*5%*	*5%*		*5%*	*5%*	*5%*	*5%*	*5%*	***5%***						*5%*		*5%*
Hg	5%	5%		5%	5%		5%		5%	5%													5%	
MDCB			*5%*		*5%*	*5%*	*5%*			*5%*	*5%*			*5%*	*5%*									
Ni																								
PAHs	*40%*	*40%*	*60%*	*60%*	*40%*	*80%*	*40%*	*40%*	*20%*	*40%*	*20%*	*20%*	*20%*	*20%*	*20%*	***80%***	*60%*	*20%*	*60%*	*40%*	***40%***	*20%*	*20%*	*40%*
Pb																								
PCBs	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*	*20%*					*5%*		***20%***			*20%*		***20%***			*20%*
PCP	5%	5%	5%		5%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	
PDCB																								
Sb			5%	5%			5%		5%	5%	5%					**10%**				5%	**5%**		5%	
TBT		*5%*					*5%*									***5%***	*5%*		*5%*	*5%*	***5%***			
TCB																								
Zn				5%			5%									**5%**								

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

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Parameter	1126	1127	1133	1201	1202	**1203**	1204	1206	1207	**1208**	1209	**1210**	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	**2105**	2106	2107
Ag																										
As										**10%**					10%			10%	10%		5%		5%			5%
BBPH			5%	5%				5%		***5%***				5%						5%	5%	5%	5%	**5%**	*10%*	*5%*
BEPH																			5%						20%	
Cd																										
Cr																		5%								
Cu														15%				15%	15%							
DDD																										
DDE																						5%	5%			
DDT																							5%			*10%*
DEPH	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
DMP				5%																						
DMPH			5%	5%								**15%**	5%	20%												
DOPH				5%																					5%	
HCB																					5%		5%			5%
HCBD				5%						5%							5%	5%		5%	5%	5%		5%	5%	5%
Hg			5%											5%						5%	5%	5%	5%	5%		5%
MDCB					5%	5%				5%						5%									5%	
Ni																										
PAHs	40%		40%	80%	40%	**60%**	20%	20%		**20%**		**40%**	20%	40%	40%	20%	20%	60%	20%	40%	40%	20%	20%	**20%**		40%
Pb																			15%							
PCBs	20%	20%	20%	20%		5%								20%						20%	20%	20%	20%	20%	20%	20%
PCP	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%		5%	5%	5%	5%	5%	5%
PDCB																										
Sb	5%			5%					5%	10%				5%	10%		5%	15%	20%			5%		5%		5%
TBT			5%											20%				20%								
TCB																										
Zn														5%				15%	15%							

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Parameter	2103	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	**2208**	2209	2210	2211	**2212**	2213	2214	2215	3101	3102	3103
Ag										10%															
As			5%		10%	10%	20%	5%		15%		10%	15%		**5%**	5%			**5%**						
BBPH	*10%*		*5%*		*5%*		*5%*	*10%*				*5%*				*10%*	*10%*		*10%*	*5%*	*10%*	*5%*	*5%*	*5%*	*5%*
BEPH								*5%*									*5%*	*20%*	*5%*		*20%*				
Cd																		5%							
Cr										5%								5%							
Cu					5%					20%															
DDD						*10%*							*10%*												
DDE							*5%*						*10%*												
DDT		*5%*				*10%*	*10%*					*5%*	*10%*					*5%*							
DEPH	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*
DMP							*5%*																		
DMPH																						*5%*			
DOPH																*5%*	*5%*	*5%*							
HCB							*5%*					*5%*											*5%*		
HCBD	*5%*	*5%*	*5%*		*5%*		*5%*	*5%*					*20%*											*5%*	
Hg	5%		5%	5%		5%	15%	5%					20%					5%	**5%**						
MDCB		*5%*								*5%*		*5%*	*5%*		**5%**	*5%*		*5%*	*5%*		*5%*	*5%*			
Ni																									
PAHs	*40%*	*40%*	*40%*	*40%*	*40%*	*60%*	*80%*	*40%*		*60%*	*20%*	*40%*	*60%*	*20%*	**40%**	*40%*	*40%*	*80%*	**40%**		*20%*	*20%*	*20%*	*20%*	*20%*
Pb										20%															
PCBs	*20%*	*20%*	*20%*	*20%*	*20%*	*40%*	*40%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*				*20%*	*20%*	**20%**		*20%*	*20%*	*20%*	*20%*	
PCP	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																									
Sb	5%	5%		5%	10%		10%	5%		20%	5%	5%	10%		**10%**	10%	5%	5%	**10%**	5%	5%	5%			
TBT																									
TCB																									
Zn					10%		5%	10%		20%								10%	5%						

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

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Parameter	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113						3201	SM	3203	3204	3205	**3206**	3207	SM	3209	**3210**	**3211**	3212	**3213**	**3214**	**3215**
Ag																														
As				5%																					**10%**	**5%**				
BBPH		*5%*					*5%*																		***5%***		*10%*	***5%***	***20%***	***10%***
BEPH																													***20%***	
Cd																													**20%**	
Cr																													**10%**	
Cu																					**15%**				**5%**				**20%**	**15%**
DDD																														
DDE																														
DDT																														***5%***
DEPH	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%			5%		5%	5%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%
DMP																												***10%***	***5%***	
DMPH																												***5%***	***5%***	***15%***
DOPH																												***5%***	***5%***	
HCB																														
HCBD	5%	5%	5%			5%	5%																	5%	***5%***			***5%***	***20%***	
Hg																													**5%**	
MDCB																														***5%***
Ni																													**20%**	
PAHs	*40%*	*40%*	*20%*	*60%*	*20%*	*40%*	*40%*									*20%*		*20%*	*40%*	*20%*	***20%***	*20%*		*20%*	***40%***	***60%***	*20%*	***60%***	***60%***	***60%***
Pb																													**20%**	
PCBs	*20%*	*20%*	*20%*	*20%*		*20%*	*20%*	*20%*	*40%*	*20%*									*5%*	*20%*	***20%***				***20%***	***5%***	*20%*		***20%***	***20%***
PCP	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%			5%		5%	5%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%
PDCB																														
Sb				5%		5%															**5%**	5%		5%	**10%**	**10%**	5%		**5%**	**5%**
TBT	*5%*			*20%*			*5%*																							
TCB																														
Zn																									**5%**				**20%**	

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

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Parameter	3216	3217	SM	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111	4115	**4116**	**4117**	4118	**4119**	4120	4201	4202	4203	4204	4205
Ag																												
As						10%															10%		5%					20%
BBPH	*20%*	*5%*		*5%*					*5%*	*5%*	*5%*		*15%*											*5%*				*5%*
BEPH	*5%*												*20%*															
Cd																												
Cr																							5%				20%	20%
Cu						10%															15%							15%
DDD							*5%*												***5%***									
DDE																												
DDT																			***5%***	***5%***								
DEPH	*5%*	*5%*		*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*
DMP							*5%*																					
DMPH																								*5%*				
DOPH													*5%*											*5%*				
HCB							*5%*																					
HCBD							*5%*		*5%*	*5%*	*5%*	*5%*	*5%*		*5%*				*5%*		***5%***			*5%*				
Hg											5%																	
MDCB	*5%*			*5%*								*5%*						*5%*										
Ni																												
PAHs	*20%*	*20%*		*20%*		*40%*	*80%*	*20%*	*40%*	*60%*	*20%*	*60%*	*40%*	*20%*	*20%*			*20%*	***60%***	***40%***	*40%*	***40%***	*20%*	*20%*	*20%*	*20%*	*20%*	*60%*
Pb																												15%
PCBs	*20%*						*20%*		*20%*	*20%*	*20%*	*40%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	***20%***	***40%***	*40%*	***20%***	*20%*				*40%*	*40%*
PCP	5%	5%		5%	5%	5%	5%	5%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																												
Sb						10%		5%				5%	5%	5%	5%			5%		**5%**	10%		10%				10%	20%
TBT																												
TCB																												
Zn						10%														**10%**		**10%**						15%

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

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Parameter	4206	4207	4208	4209	4210					5101	**5102**	5103	5104	5105	5106	**5107**	5108	5109	5110	5111	**5112**	5113	5114	5115	5116	5120	5121	5201	5202
Ag		15%																											
As		10%		5%																								5%	
BBPH	*5%*		*5%*	*10%*	*5%*							*5%*					*5%*							*5%*					
BEPH	*20%*																												*20%*
Cd		5%																											
Cr																												5%	
Cu		20%																										20%	15%
DDD																													
DDE																													
DDT																													
DEPH	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*
DMP																													
DMPH																													
DOPH	*5%*																												
HCB												*5%*	*5%*	*5%*	*5%*	***5%***	*20%*	*20%*	*5%*	*10%*	***5%***	*5%*		*5%*	*15%*				
HCBD			*5%*	*5%*						*5%*		*5%*	*5%*	*10%*	*20%*	***5%***	*20%*	*20%*	*5%*	*15%*	***5%***	*5%*	*5%*	*5%*	*5%*				
Hg															5%		5%					5%	5%						
MDCB																													*5%*
Ni																													
PAHs	*20%*	*20%*	*20%*	*40%*	*20%*					*40%*	***20%***	*20%*	*20%*	*20%*	*40%*	***20%***	*20%*	*20%*	*20%*	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*60%*
Pb	10%																												
PCBs	*20%*		*20%*	*20%*								*20%*		*20%*	*20%*	***20%***	*20%*	*40%*	*20%*	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*				*20%*
PCP	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																													
Sb	10%	15%	5%	5%																								10%	5%
TBT																												*5%*	*5%*
TCB																	*20%*			*20%*									
Zn		10%																										15%	15%

Table 1. Injury assigned by Trustees for each station by parameter (before pro-rating) sheet 1

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Itallics need to be changed for TOC based criteria, and

Underline values need to be removed due to multiplier factors.

Impacts should not be assigned for undetect values. The use of undetects, coupled with multiplier factors should also not occur.

(Note: numerous vaues are also assigned to higher levels than they should be due to multiplier factors. These are not identified here yet.)

Parameter	5203	5205	5206	5207	5208	5209	5210	5211	5212	**5213**	5214	5215	sum	
Ag										**10%**			35%	
As	5%											5%	295%	
BBPH												*5%*	495%	*Injuries on table D-22 do not match levels from Table 5 in Appendix D.*
BEPH	*20%*						*5%*						210%	
Cd													30%	
Cr	15%	5%	5%						20%			5%	125%	
Cu	15%		5%				5%					20%	270%	
DDD	*5%*		*5%*	*5%*	*5%*	*10%*	*10%*	*10%*					85%	
DDE	*5%*		*5%*	*5%*	*5%*	*10%*	*10%*	*10%*					90%	
DDT	*10%*		*10%*	*5%*	*10%*	*15%*	*15%*	*15%*					160%	
DEPH	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*865%*	
DMP													35%	
DMPH							*5%*						130%	*Injuries on table D-20 do not match levels from Table 5 in Appendix D.*
DOPH													60%	
HCB	*5%*	*10%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*				365%	
HCBD	*5%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*					710%	
Hg	5%	5%	20%				5%						275%	
MDCB	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*	*5%*		*5%*				185%	*all listed were "U" except 5203*
Ni	20%				20%								60%	
PAHs	*60%*	*60%*	*60%*	*60%*	*60%*	*60%*	*60%*	*60%*	*40%*	**20%**	*20%*	*80%*	6320%	
Pb	15%		10%	20%	20%	20%	20%			**20%**			205%	
PCBs	*80%*	*20%*	*40%*	*40%*	*60%*	*80%*	*80%*	*80%*	*20%*			*20%*	3095%	
PCP	5%	5%	5%	5%	5%	5%	20%	5%	5%	5%	5%	5%	995%	
PDCB	*20%*												*20%*	
Sb	10%	5%	10%	5%	5%	5%	10%	5%		**10%**		10%	565%	
TBT												*5%*	*185%*	
TCB	*20%*	*20%*			*20%*	*20%*	*20%*	*5%*					245%	
Zn	10%		10%				5%	10%				10%	270%	
													16380%	Sum of sums

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Note also that DDD, DDE and DDT injuries are now increased by factor of 2 to reflec: losses that Figures 3, 4 and 5 in appendix D assign.

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

	Station																								
Parameter	HY-1	HY-2	**HY-3**	HY-4	**HY-5**	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	**HY-12**	HY-13	HY-14	**HY-15**	**HY-16**	HY-17	**HY-18**	**HY-19**	**HY-20**	**HY-21**	**HY-22**	HY-23	HY-24	HY-25	HY-26
Ag																										
As																									5%	
BBPH																***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*10%*	*5%*	*5%*	
BEPH																								*5%*		
Cd																										
Cr																										
Cu																										
DDD																										
DDE																									*10%*	*10%*
DDT																					***10%***					
DEPH																***5%***					***5%***			*5%*		
DMP																										
DMPH																								*5%*		
DOPH																										
HCB			***5%***	*5%*	***5%***	*5%*	*5%*	*5%*	*10%*	*5%*	*5%*	***5%***			***5%***	***5%***			***5%***	***5%***	***5%***					
HCBD	*5%*	*5%*	***5%***		***5%***	*10%*	*15%*	*5%*	*15%*	*5%*	*5%*	***5%***	*5%*	*5%*	***5%***	***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*5%*	*5%*		
Hg								5%							***5%***	***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*5%*	*5%*	*5%*	*5%*
MDCB																										
Ni																										
PAHs	*20%*	*20%*	***60%***	*20%*	***40%***	*40%*	*20%*	*40%*	*20%*	*40%*	*20%*	***40%***	*20%*	*20%*	***40%***	***20%***	*20%*	***40%***	***60%***	***40%***	***40%***	***40%***	*40%*	*60%*	*60%*	*40%*
Pb																										
PCBs		*20%*	***5%***	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	***20%***	*5%*	*20%*	***20%***	***20%***	*20%*	***20%***	***20%***	***20%***	***20%***	***20%***	*20%*	*20%*	*20%*	*20%*
PCP	5%	5%	5%	5%	5%	5%	5%	5%	20%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																										
Sb																										
TBT			***5%***						*5%*	*5%*				*5%*		*5%*		*5%*	*5%*	*5%*	*5%*			*5%*	*5%*	*5%*
TCB					***5%***	*20%*	*5%*	*20%*	*10%*	*20%*	*5%*	***5%***							***5%***		***5%***					
Zn																***5%***										

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113				**1117**	1118	1119	1120	1121	**1122**	1123	1124	1125
Ag																											
As				5%															**5%**					**10%**			
BBPH	*5%*	*5%*	*5%*	*10%*			*5%*		*5%*										***5%***								
BEPH		*5%*																									
Cd																											
Cr																											
Cu																											
DDD		*10%*																									
DDE		*10%*																									
DDT																											
DEPH																											
DMP																											
DMPH													*5%*		*5%*									***5%***			
DOPH																			***5%***								
HCB																											
HCBD																											
Hg	5%	5%		5%					5%																	5%	
MDCB																											
Ni																											
PAHs	*40%*	*40%*	*40%*	*40%*	*20%*	*80%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*				***60%***	*40%*	*20%*	*60%*	*20%*	***20%***		*20%*	*20%*
Pb																											
PCBs	*20%*	*20%*	*20%*	*20%*	*5%*	*5%*		*5%*	*5%*					*5%*					***5%***			*5%*		***5%***			*5%*
PCP	5%	5%																	5%								
PDCB																											
Sb			5%	5%			5%		5%	5%									**10%**					**5%**			
TBT		*5%*					*5%*												***5%***	*5%*		*5%*	*5%*	***5%***			
TCB																											
Zn							5%																				

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Italics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	1126	1127	1133	1201	1202	**1203**	1204	1205	1206	1207	**1208**	1209	**1210**	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	**2105**	2106	2107
Ag																											
As											**10%**					10%			10%	10%		5%					5%
BBPH									*5%*						*5%*							*5%*	*5%*			*5%*	*5%*
BEPH																											
Cd																											
Cr																											
Cu															15%				15%	15%							
DDD																											
DDE																							*10%*	*10%*			
DDT																								*10%*			*20%*
DEPH																											
DMP																											
DMPH			*5%*	*5%*									***15%***	*5%*	*20%*												
DOPH																											
HCB																								*5%*			*5%*
HCBD																											
Hg																						5%	5%	5%	**5%**		5%
MDCB																											
Ni																											
PAHs	*20%*		*20%*	*60%*	*20%*	***60%***	*20%*		*20%*		***20%***		***40%***	*20%*	*20%*	*20%*		*20%*	*40%*	*20%*	*40%*	*20%*	*20%*	*20%*	***20%***		*20%*
Pb																				15%							
PCBs			*5%*																		*20%*	*20%*	*20%*	*20%*	***20%***	*20%*	*20%*
PCP															5%												
PDCB																											
Sb	5%			5%						5%	**10%**				5%	10%		5%	10%	20%			5%		**5%**		5%
TBT			*5%*												*20%*				*20%*								
TCB																											
Zn																			15%	15%							

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Italics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	2108	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	**2208**	2209	2210	2211	**2212**	2213	2214	2215	3101	3102	3103
Ag										10%															
As					10%	10%	20%			15%		10%	10%		**5%**	5%			**5%**						
BBPH	*5%*		*5%*				*5%*	*10%*				*5%*				*5%*	*10%*		***10%***	*5%*	*10%*	*5%*	*5%*	*5%*	*5%*
BEPH																		*20%*							
Cd																		5%							
Cr										5%								5%							
Cu										20%															
DDD						*20%*							*20%*												
DDE							*10%*						*20%*												
DDT		*10%*				*20%*	*20%*					*10%*	*20%*												
DEPH																									
DMP							*5%*																		
DMPH																						*5%*			
DOPH																*5%*		*5%*							
HCB							*5%*					*5%*											*5%*		
HCBD					*5%*		*5%*						*5%*												
Hg			5%			5%	15%	5%					20%					5%							
MDCB																									
Ni																									
PAHs	*20%*	*20%*	*20%*	*20%*	*20%*	*40%*	*60%*	*40%*		*60%*	*20%*	*20%*	*40%*	*20%*	***20%***	*40%*	*20%*	*80%*	***20%***		*20%*	*20%*	*20%*	*20%*	*20%*
Pb										20%															
PCBs	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*	*5%*	*20%*	*20%*				*5%*	*20%*	***20%***		*20%*	*20%*	*20%*	*0%*	
PCP																									
PDCB																									
Sb	5%	5%		5%	10%		10%			20%	5%	5%	5%		**10%**	10%	5%	5%	**5%**	5%					
TBT																									
TCB																									
Zn					10%		5%	10%		20%								10%							

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3201	3203	3204	3205	**3206**	3207	3208	3209	**3210**	**3211**	3212	**3213**	**3214**	**3215**
Ag																								
As																			**10%**	**5%**				
BBPH		*5%*																	***5%***		*10%*		***20%***	***10%***
BEPH																							***20%***	
Cd																							**20%**	
Cr																							**10%**	
Cu															**15%**								**20%**	**15%**
DDD																								
DDE																								
DDT																								***10%***
DEPH																					*5%*			
DMP																								
DMPH																						***5%***	***5%***	***15%***
DOPH																								
HCB																								
HCBD																								
Hg																							**5%**	
MDCB																								
Ni																							**20%**	
PAHs	*20%*	*20%*	*20%*	*40%*		*20%*	*20%*				*20%*	*20%*	*20%*	*20%*				*20%*	***20%***	***40%***	*20%*	***40%***	***40%***	***40%***
Pb																							**20%**	
PCBs	*20%*	*20%*	*20%*	*20%*		*20%*	*20%*	*20%*	*20%*	*20%*				*20%*									***20%***	***5%***
PCP												5%												5%
PDCB																								
Sb				5%		5%									**5%**			5%	**10%**	**5%**	5%		**5%**	
TBT	*5%*			*20%*			*5%*																	
TCB																								
Zn																			**5%**				**20%**	

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Italics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	3216	3217	3218	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111	4115	**4116**	**4117**	4118	**4119**	4120	4201	4202	4203	4204	4205
Ag																												
As						10%															10%		5%					20%
BBPH	*10%*									*5%*			*10%*															*5%*
BEPH													*20%*															
Cd																												
Cr																							5%				10%	20%
Cu						10%															15%							15%
DDD							*10%*												***10%***									
DDE																												
DDT																			***10%***									
DEPH																												
DMP							*5%*																					
DMPH																												
DOPH													*5%*															
HCB							*5%*																					
HCBD																												
Hg											5%																	
MDCB																												
Ni																												
PAHs	*20%*	*20%*		*20%*		*20%*	*80%*	*20%*	*20%*	*40%*	*20%*	*40%*	*20%*	*20%*	*20%*			*20%*	***40%***	***40%***	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	*20%*	*40%*
Pb																												15%
PCBs	*20%*						*20%*		*5%*	*20%*	*5%*	*20%*	*20%*		*20%*	*20%*	*20%*		*20%*	***20%***	***40%***	*40%*	***5%***	*20%*			*20%*	*20%*
PCP																												
PDCB																												
Sb						10%		5%				5%		5%	5%				5%			10%		10%				10%	20%
TBT																												
TCB																												
Zn						10%														**5%**		**10%**						15%

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	4206	4207	4208	4209	4210					5101	**5102**	5103	5104	5105	5106	**5107**	5108	5109	5110	5111	**5112**	5113	5114	5115	5116	5120	5121	5201	5202
Ag		10%																											
As		10%																										5%	
BBPH	*5%*			*10%*	*5%*												*5%*												
BEPH	*20%*																												*20%*
Cd																													
Cr																												5%	
Cu		20%																										20%	15%
DDD																													
DDE																													
DDT																													
DEPH																													
DMP																													
DMPH																													
DOPH																													
HCB												*5%*	*5%*	*5%*	*5%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*10%*				
HCBD												*5%*		*5%*	*15%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*5%*				
Hg																	5%					5%							
MDCB																													
Ni																													
PAHs	*20%*	*20%*	*20%*	*20%*	*20%*					*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	***20%***	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*60%*
Pb	10%																												
PCBs	*20%*		*20%*	*5%*										*20%*	*20%*	***5%***	*20%*	*20%*	*5%*	*20%*	***20%***	*20%*	*5%*	*20%*	*20%*				*20%*
PCP																		5%											
PDCB																													
Sb	10%	15%	5%																									10%	5%
TBT																												*5%*	*5%*
TCB																	*10%*			*5%*									
Zn		10%																										10%	15%

Table 2. Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted. (before pro-rating) sheet 2

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that need to be related to TOC normalized AETs.

[still need to make the entries]

Parameter	5203		5205	5206	5207	5208	5209	5210	5211	5212	**5213**	5214	5215	sum	Removed U values	Removed factors	Some Us retained	
Ag											**10%**			30%	n.a.	yes		
As													5%	245%	n.a.	yes		
BBPH														*315%*	*yes*	*yes*		
BEPH	*20%*													*130%*	*n.a.*	*yes*		
Cd														25%	n.a.	yes		
Cr	15%		5%	5%						20%			5%	110%	n.a.	yes		
Cu	15%			5%				5%					15%	250%	n.a.	yes		
DDD														*70%*	*yes*	*n.a.*		*doubled losses to match to Figure 5 in appendix D*
DDE									*20%*					*100%*	*yes*	*n.a.*		*doubled losses to match to Figure 4 in appendix D*
DDT														*140%*	*yes*	*n.a.*		*doubled losses to match to Figure 3 in appendix D*
DEPH														*20%*	*yes*	*n.e.*		
DMP														*10%*	*yes*	*n.e.*		
DMPH								*5%*						*105%*	*yes*	*yes*		
DOPH														*20%*	*yes*	*yes*		
HCB	*5%*		*5%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*				*340%*	*n.a.*	*yes*		
HCBD	*5%*		*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*					*400%*	*yes*	*yes*		
Hg	5%		5%	15%				5%						215%	*n.a.*	*yes*		
MDCB	*5%*													*5%*	*yes*	*n.e.*		
Ni	20%					20%								60%	*n.a.*	*n.e*		
PAHs	*60%*		*40%*	*40%*	*60%*	*40%*	*40%*	*60%*	*40%*	*20%*	***20%***		*60%*	*4960%*		*yes*	*yes*	
Pb	15%			5%	15%	20%	20%	20%			**20%**			195%	*n.a.*	*yes*		
PCBs	*80%*		*20%*	*40%*	*40%*		*80%*			*20%*			*5%*	*2200%*	*yes*	*yes*	*yes*	
PCP				5%	5%		5%	20%						215%	yes			
PDCB	*20%*													*20%*				
Sb	10%		5%	5%	5%	5%	5%	10%	5%		**10%**		10%	485%	yes	*yes*		
TBT													*5%*	*185%*	*n.a.*	*n.a.*		
TCB	*20%*		*5%*			*5%*	*20%*	*5%*						*170%*	*n.a.*	*yes*		
Zn	10%			10%					5%				10%	230%	*n.a.*	yes		
														11250%	Sum of sums = about a 31% decrease			
															based on removing U values, removing factors.			

Table 3

AETs as of April 23, 2002
Provided by
Tom Gries
Department of Ecology

DRAFT Table NEW (Mixed Normal). Suite of seven 1999 dry wt/TOC Puget Sound AETs (06/02/99). 227137

Outliers removed. HAET > 3AET > 2AET > LAET

Chemical Group/ Chemical of Concern	Amphipod AET (1994)	Benthic AET (1988)	Bivalve AET (1999)	Echinoderm AET (1999)	Microtox AET (1986)	Neanthes AET (1999)	Oyster AET (1986)
Metals (mg/kg or ppm DW)							
Arsenic	450	57	35	190	700	79	700
Cadmium	14	5.1	3.6	11	9.6	3.0	9.6
Chromium	>1100	260	67	100	na	62	na
Copper	1300	530	394	540	390	394	390
Lead	1200	450	400	1600	530	400	660
Mercury	2.3	2.1	2.2	1.7	0.41	2.2	0.59
Silver	6.1	>6.1	3.1	29	>.56	3.3	>0.56
Zinc	3800	410	1050	2000	1600	740	1600
Nonionizable organic compounds (mg/kg or ppm TOC)							
Low molecular weight PAH							
LPAH	2200	780	593	2900	>530	775	370
2-Methylnaphthalene	>120	64	9.2	140	na	13	na
Acenaphthene	200	57	27	210	>57	46	16
Acenaphthylene	66	66	9.3	12	>27	>9	>27
Anthracene	1200	220	>146	540	>79	121	>79
Fluorene	360	79	27	250	>71	114	23
Naphthalene	220	170	23	330	>170	39	99
Phenanthrene	840	480	377	1700	>160	243	120
High molecular weight PAH							
HPAH	5300	7600	900	3800	1500	2114	960
Benz[a]anthracene	270	650	94	520	>160	193	110
Benzo[a]pyrene	210	>1300	91	470	>140	136	99
Benzo[ghi]perylene	100	>1200	>100	110	>67	100	31
Benzofluoranthenes	450	1500	161	420	>430	343	230
Chrysene	840	850	122	780	>200	418	110
Dibenzo(a,h)anthracene	50	89	24	63	33	24	120
Fluoranthene	3000	1200	362	1000	>190	714	160
Indeno(1,2,3-c,d)pyrene	120	900	79	100	>87	79	33
Pyrene	1000	1400	288	880	>210	686	>210

Chlorinated organic compounds							
1,2-dichlorobenzene	>5.8	2.3	3.0	0.64	2.3	0.64	2.3
1,2,4-trichlorobenzene	1.8	na	3.0	2.4	0.81	5.4	2.7
1,4-dichlorobenzene	9.0	16	3.7	1.3	>16	4.2	3.1
Hexachlorobenzene	4.5	0.38	3.0	3.5	2.3	5.9	9.6
Phthalates							
Bis[2-ethylhexyl] phthalat	>550	60	88	130	47	87	60
Butyl benzyl phthalate	49	64	7	17	4.9	7	>9.2
Di-n-butyl phthalate	260	1700	3.0	4.8	220	4.8	260
Di-n-octyl phthalate	58	4500	3.2	5.9	na	>3.2	>57
Diethylphthalate	>110	61	3.0	16	>5.3	na	>5.3
Dimethylphthalate	53	53	3.0	78	>19	2.3	>22
Miscellaneous Extractables							
Dibenzofuran	>170	58	8.4	100	>58	18	15
Hexachlorobutadiene	6.2	6.9	3.0	14	3.9	15	11
N-nitrosodiphenylamine	>11	11	na	6.4	>11	na	>11
Volatile organics							
Pesticides and PCBs							
Total PCBS	190	65	>377	170	12	>377	>46
Ionizable organic compounds (mg/kg or ppm DW)							
Pherols							
2-methyl phenol	77	72	8.0	55	>72	23	63
2,4-dimethyl phenol	77	210	na	55	29	18	29
4-methylphenol	3600	1800	100	250	670	880	670
Pentachlorophenol	400	690	17	150	>140	180	>140
Phenol	1200	1200	160	130	1200	160	420
Miscellaneous Extractables							
Benzyl alcohol	73	870	52	90	57	>150	73
Benzoic acid	760	650	270	>530	650	65	650

Table 4. Development of PAH TOC normalized AETs and Fish Effects Thresholds.

Figure 1 in Appendix D assigned service loss % based on the following:

		ppm dry weight	svc loss %	
fish sublethal effect 1	F1	1	20%	
fish sublethal effect 2	F2	5	20%	(service loss percentages
Echinoderm AET	E	7.9	20%	are as assigned by Trustees
Neanthes AET	N	8.1	20%	in draft settlement proposal.
fish sublethal effect 3	F3	10	40%	Their use here does not
Microtox AET	M	12	40%	mean we concur.)
Oyster AET	O	17	60%	
Amphipod AET	A	69	80%	
Benthic Community	B	69	80%	
fish sublethal effect 4	F4	100	80%	

However, this approach ignores the influence of TOC content on effects. There are TOC normalized AETs for HPAHs for the invertebrate species and the reference document summarizing the PAH fish effects did make a statement that a 1 ppm PAH dry weight fish effect level was equal to a 50 mg/kg TOC value when the sediment TOC was at 2%. Hence, assuming 2% TOC for the various fish effects, approximate TOC normalized values can be described. This results in the following:

		mg/kg TOC normalized	svc loss %	
fish sublethal effect 1	F1	50	20%	(service loss percentages
fish sublethal effect 2	F2	250	20%	are as assigned by Trustees
Echinoderm AET	E	3800	20%	in draft settlement proposal.
Neanthes AET	N	2114	20%	Their use here does not
fish sublethal effect 3	F3	500	40%	mean we concur. Note also that
Microtox AET	M	1500	40%	the "standards" no longer line
Oyster AET	O	960	60%	up logically with the service
Amphipod AET	A	5300	80%	loss percentages.)
Benthic Community	B	7600	80%	
fish sublethal effect 4	F4	5000	80%	

The different effects levels compared to the dry weight values suggests a different sorting

		mg/kg TOC normalized	svc loss %	
fish sublethal effect 1	F1	50	20%	
fish sublethal effect 2	F2	250	20%	(here the service loss percentages
fish sublethal effect 3	F3	500	40%	were re assigned. The values
Oyster AET	O	960	40%	shown are for demonstration
Microtox AET	M	1500	40%	only, and does not mean we
Neanthes AET	N	2114	40%	concur with the values shown.
Echinoderm AET	E	3800	40%	Essentially, the invertebrate tests
fish sublethal effect 4	F4	5000	60%	do not contribute to the service
Amphipod AET	A	5300	60%	loss until all tests are exceeded.)
Benthic Community	B	7600	80%	

Table 5. Development of PCB TOC normalized AETs and Fish Effects Thresholds.

Figure 2 in Appendix D assigned service loss % based on the following:

		ppb dry weight	svc loss %	
Microtox AET	M	130	5%	
Chinook SEC	C	173	20%	
1st quartile sum data	1/4 sum	259	20%	
Echinoderm AET	E	450	20%	
ER-M, SEC sum data	ERM sum	699	20%	
Benthic Community	B	1000	20%	
1st quartile unsum data	1/4 unsum	1080	20%	
Oyster AET	O	1100	20%	quartile data based on 2.3% TOC
3rd quartile sum data	3/4 unsum	1467	20%	
		1500	40%	
ER-M unsum data	ERM unsum	2530	40%	It is not possible to directly
Amphipod AET	A	3100	40%	convert ER-M values to organic
3rd quartile unsum data	3/4 sum	3864	40%	carbon normalized values.
		4000	60%	
>90% of studies	>90%	7199	60%	
Salmonid Sublethal	S - SL	9200	60%	
Neanthes AET	N	15190	60%	
		15200	80%	
Salmonid Growth	S - G	20600	80%	
Salmonid Survival	S - S	64900	80%	

However, this approach ignores the influence of TOC content on effects.
There are TOC normalized AETs for PCBs for the invertebrate species from Ecology,
and Figure 2 in Appendix D shows that the salmonid concentrations are based on 2.3% TOC.
Furthermore, the Meador (in press) reference is actually based on TOC normalization.
Hence, the salmonid values can be converted to TOC normalized values
Assuming 2.3% TOC for salmonid effects, and even the quartile data, approximate TOC normalized values can be described. This results in the following:

	mg/kg TOC normalized	svc loss %
Chinook SEC	7.5	20%
1st quartile sum data	11.9	20%
Microtox AET	12	20%
Oyster AET	>46	20%
1st quartile unsum data	47	20%
3rd quartile sum data	63.8	20%
Benthic AET	65	20%
3rd quartile unsum data	168	40%
Echinoderm AET	170	40%
Amphipod AET	190	40%
Neanthes AET	>377	40%
Salmonid Sublethal	400	60%
Salmonid Growth	896	80%
Salmonid Survival	2822	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and **approximate TOC values**, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Station Parameter	HY-1	HY-2	HY-3	HY-4	HY-5	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	HY-12	HY-13	HY-14	HY-15	HY-16	HY-17	HY-18	HY-19	HY-20	HY-21	HY-22	HY-23	HY-24	HY-25
approximate TOC	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	2%	2%	2%	3%	3%	3%	4%	4%	4%	4%	5%	5%	5%
PAH dry wt (ppm)	1.7	3.818	23.071	5.37	8.322	9.331	7.13	8.913	7.549	10.175	5.591	8.223	3.477	4.323	8.943	7.952	3.717	10.678	18.068	13.863	14.467	14.812	14.415	30.703	17.558
PAH-oc (ppm)	170.0	381.8	2307.1	537.0	832.2	933.1	713.0	891.3	754.9	1017.5	559.1	822.3	173.9	216.2	447.2	265.1	123.9	355.9	451.7	346.6	361.7	370.3	288.3	614.1	351.2
% loss from PAH	20%	20%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%	20%
PCB dry wt (ppb)	94	330	167	220	350	503	280	790	230	470	390	410	150	230	410	515	650	580	643	600	600	410	530	470	510
PCB-oc (ppm)	9.4	33.0	16.7	22.0	35.0	50.3	28.0	79.0	23.0	47.0	39.0	41.0	7.5	11.5	20.5	17.2	21.7	19.3	16.1	15.0	15.0	10.3	10.6	9.4	10.2
% loss from PCB	**20%**	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	**0%**	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and **actual TOC values**, TOC normalized PAH values calculated and % loss assgned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Station Parameter	HY-1	HY-2	HY-3	HY-4	HY-5	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	HY-12	HY-13	HY-14	HY-15	HY-16	HY-17	HY-18	HY-19	HY-20	HY-21	HY-22	HY-23	HY-24	HY-25
Actual TOC	1.50%	1.80%	1.92%	1.78%	1.97%	1.91%	1.75%	2.88%	2.02%	2.04%	2.09%	2.50%	1.89%	1.47%	2.55%	3.12%	2.28%	3.37%	3.49%	4.04%	3.92%	3.21%	3.78%	**5.85%**	**6.32%**
PAH dry wt (ppm)	1.7	3.818	23.071	5.37	8.322	9.331	7.13	8.913	7.549	10.175	5.591	8.223	3.477	4.323	8.943	7.952	3.717	10.678	18.068	13.863	14.467	14.812	14.415	30.703	17.558
PAH - OC (ppm)	113.3	212.1	1201.6	306.9	422.4	488.5	407.4	309.5	373.7	498.8	267.5	328.9	184.0	294.1	350.7	254.9	163.0	316.9	517.7	343.1	369.1	461.4	381.3	524.8	277.8
% loss from PAH	20%	20%	40%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%	20%	20%	20%	20%	40%	20%
PCB dry wt (ppb)	94	330	167	220	350	503	280	790	230	470	390	410	150	230	410	515	650	580	643	600	600	410	530	470	510
PCB-oc (ppm)	6.3	18.3	8.7	12.6	17.8	26.3	16.0	27.4	11.4	23.0	18.7	16.4	7.9	15.6	16.1	16.5	28.5	17.2	18.4	14.9	15.3	12.8	14.0	8.0	8.1
% loss from PCB	**0%**	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	**20%**	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Parameter	HY-26	HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1117	1118	1119	1120	1121	1122	1123	1124	1125
approximate TOC	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PAH dry wt (ppm)	13.15	9.154	11.653	10.009	8.541	4.208	29.509	6.68	4.731	3.994	4.962	3.364	2.267	3.205	2.369	2.935	39.798	14.490	3.405	18.940	5.322	5.994	0.523	2.138	5.63
PAH-oc (ppm)	263.0	183.1	233.1	200.2	170.8	84.2	5902	133.6	94.6	79.9	99.2	67.3	45.3	64.1	47.4	58.7	796.0	289.8	68.1	378.8	106.4	119.9	105	42.8	112.6
% loss	20%	20%	20%	20%	20%	20%	40%	20%	20%	20%	20%	20%	0%	20%	0%	20%	40%	20%	20%	20%	20%	20%	0%	0%	20%
PCB dry wt (ppb)	450	370	313	345	383	257	253	124	97	134	70	65	72	73	97 U		165	54	58	132	63	150 U		76	149
PCB-oc (ppm)	9.0	7.4	6.3	6.9	7.7	5.1	51	2.5	1.9	2.7	1.4	1.3	1.4	1.5	1.9	######	3.3	1.1	1.2	2.6	1.3	3.0	######	1.5	3.0
% loss from PCB	20%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Parameter	HY-26	HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1117	1118	1119	1120	1121	1122	1123	1124	1125
actual TOC	**6.08%**	3.76%	4.92%	10.20%	4.53%	**5.29%**	**7.71%**	**8.82%**	4.61%	**5.53%**	**7.46%**	**5.45%**	3.76%	**5.75%**	**5.16%**	**5.42%**	**960%**	**5.40%**	1.40%	3.40%	10.00%	2.60%	2.80%	5.00%	3.30%
PAH dry wt (ppm)	13.15	9.154	11.653	10.009	8.541	4.208	29.509	6.68	4.731	3.994	4.962	3.364	2.267	3.205	2.369	2.935	39.798	14.490	3.405	18.940	5.322	5.994	0.523	2.138	5.63
PAH - OC (ppm)	216.3	243.5	236.8	98.1	188.5	79.5	3827	75.7	102.6	72.2	66.5	61.7	60.3	55.7	45.9	54.2	414.6	268.3	243.2	557.1	53.2	230.5	18.7	42.8	170.6
% loss	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%	20%	20%	20%	20%	40%	20%	20%	0%	0%	20%
PCB dry wt (ppb)	450	370	313	345	383	257	253	124	97	134	70	65	72	73	97 U		165	54	58	132	63	150 U		76	149
PCB-oc (ppm)	7.4	9.8	6.4	3.4	8.5	4.9	33	1.4	2.1	2.4	0.9	1.2	1.9	1.3	1.9	######	1.7	1.0	4.1	3.9	0.6	5.8	######	1.5	4.5
% loss from PCB	20%	**20%**	0%	0%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approxmation, but may not work as well for intertidal.

Parameter	1126	1127	1133	1201	1202	1203	1204	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	2105	2106
approximate TOC	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	4%	4%	4%	4%	4%	4%
PAH dry wt (ppm)	4.219		4.795	46.874	7.318	25.679	1.465	1.493	0.356	1.905	0.259	6.355	1.998	7.601	4.635	0.72	1.029	9.987	1.859	8.084	5.897	3.93	3.732	3.891	3.4
PAH-oc (ppm)	84.4		95.9	937.5	146.4	513.6	29.3	29.9	7.1	38.1	5.2	127.1	40.0	152.0	92.7	14.4	20.6	199.7	37.2	202.1	147.4	98.3	93.3	97.3	85.0
% loss	20%		20%	40%	20%	40%	0%	0%	0%	0%	0%	20%	0%	20%	20%	0%	0%	20%	0%	20%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	120	128	156	115	40	93 U	U	U		54 U		35	35	107	32 U		21	35	23	208	580	320	380	370	350
PCB-oc (ppm)	2.4	2.6	3.1	2.3	0.8	1.9	######	######	######	1.1	######	0.7	0.7	2.1	0.6	######	0.4	0.7	0.5	5.2	14.5	8.0	9.5	9.3	8.8
% loss from PCB	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	**20%**	20%	20%	20%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Parameter	1126	1127	1133	1201	1202	1203	1204	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	2105	2106
	2.50%		4.80%	13.50%	**7.13%**	2.87%	1.43%	3.09%	2.93%	**5.25%**	2.16%	1.70%	2.06%	1.55%	4.02%	3.02%	5.30%	4.54%	1.26%	3.87%	3.41%	4.54%	3.61%	4.52%	3.18%
PAH dry wt (ppm)	4.219		4.795	46.874	7.318	25.679	1.465	1.493	0.356	1.905	0.259	6.355	1.998	7.601	4.635	0.72	1.029	9.987	1.859	8.084	5.897	3.93	3.732	3.891	3.4
PAH - OC (ppm)	168.8		99.9	347.2	102.6	894.7	102.4	48.3	12.2	36.3	12.0	373.8	97.0	490.4	115.3	23.8	19.4	220.0	147.5	208.9	172.9	86.6	103.4	86.1	106.9
% loss	20%		20%	20%	20%	40%	20%	0%	0%	0%	0%	20%	20%	20%	20%	0%	0%	20%	20%	20%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	120	128	156	115	40	93 U	U	U		54 U		35	35	107	32 U		21	35	23	208	580	320	380	370	350
PCB-oc (ppm)	4.8	#####	3.3	0.9	0.6	3.2	######	######	######	1.0	######	2.1	1.7	6.9	0.8	######	0.4	0.8	1.8	5.4	17.0	7.0	10.5	8.2	11.0
% loss from PCB	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	**0%**	20%	20%	20%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Parameter	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	3101
approximate TOC	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	3%
PAH dry wt (ppm)	5.174	4.388	4.927	5.831	5.934	6.641	10.601	67.899	8.426		25.095	3.775	5.673	14.144	3.377	4.903	8.446	4.247	75.330	6.709	0.31	3.014	2.409	2.389
PAH-oc (ppm)	129.4	109.7	123.2	145.8	148.4	166.0	265.0	1697.5	210.7	0.0	627.4	94.4	141.8	353.6	84.4	122.6	211.2	106.2	1883.3	167.7	7.8	75.4	60.2	79.6
% loss	20%	20%	20%	20%	20%	20%	20%	40%	20%	na	40%	20%	20%	20%	20%	20%	20%	20%	40%	20%	0%	20%	20%	20%
PCB dry wt (ppb)	410	340	208	223	450	430	1900	930	390	320	146	168	530	720	21	41	37	235	870	510	30	188	221	215
PCB-oc (ppm)	10.3	8.5	5.2	5.6	11.3	10.8	47.5	23.3	9.8	8.0	**3.7**	4.2	13.3	18.0	0.5	1.0	0.9	5.9	21.8	12.8	0.8	4.7	5.5	7.2
% loss from PCB	20%	20%	0%	0%	20%	20%	20%	20%	20%	20%	**0%**	0%	20%	20%	0%	0%	0%	**0%**	20%	20%	0%	0%	**0%**	0%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Parameter	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	3101
actual TOC	**5.18%**	3.49%	**9.10%**	3.15%	3.65%	3.70%	1.30%	4.60%	3.50%	3.60%	1.83%	2.70%	1.42%	2.66%	1.08%	2.80%	4.53%	1.41%	4.19%	1.77%	1.89%	2.95%	1.89%	3.64%
PAH dry wt (ppm)	5.174	4.388	4.927	5.831	5.934	6.641	10.601	67.899	8.426		25.095	3.775	5.673	14.144	3.377	4.903	8.446	4.247	75.330	6.709	0.31	3.014	2.409	2.389
PAH - OC (ppm)	99.9	125.7	54.1	185.1	162.6	179.5	815.5	1476.1	240.7	0.0	1371.3	139.8	399.5	531.7	312.7	175.1	186.4	301.2	1797.9	379.0	16.4	102.2	127.5	65.6
% loss	20%	20%	20%	20%	20%	20%	40%	40%	20%		40%	20%	20%	40%	20%	20%	20%	20%	40%	20%	0%	20%	20%	20%
PCB dry wt (ppb)	410	340	208	223	450	430	1900	930	390	320	146	168	530	720	21	41	37	235	870	510	30	188	221	215
PCB-oc (ppm)	7.9	9.7	2.3	7.1	12.3	11.6	146.2	20.2	11.1	8.9	8.0	6.2	37.3	27.1	1.9	1.5	0.8	16.7	20.8	28.8	1.6	6.4	11.7	5.9
% loss from PCB	20%	20%	0%	0%	20%	20%	20%	20%	20%	20%	**20%**	0%	20%	20%	0%	0%	0%	**20%**	20%	20%	0%	0%	**20%**	0%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Parameter	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3201	3203	3204	3205	3206	3207	3209	3210	3211	3212	3213	3214
approximate TOC	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
PAH dry wt (ppm)	3.177	2.216	6.726	4.55	3.01	9.891	0.579	6.483	4.51				2.305	3.944	4.113	3.252	0.509	0.526	1.142	4.051	12.181	1.619	8.548	12.651
PAH-oc (ppm)	105.9	73.9	224.2	151.7	100.3	329.7	19.3	216.1	150.3	0.0	0.0	0.0	76.8	131.5	137.1	108.4	17.0	17.5	38.1	135.0	406.0	54.0	284.9	421.7
% loss	20%	20%	20%	20%	20%	20%	0%	20%	20%	na	na	na	20%	20%	20%	20%	0%	0%	0%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	123	27	390	340	310	184 U		210	320	211	1390	250	31	48	97	216	119	23	33	119	83	118 U		297
PCB-oc (ppm)	4.1	0.9	13.0	11.3	10.3	6.1	#######	7.0	10.7	7.0	46.3	8.3	1.0	1.6	3.2	7.2	4.0	0.8	1.1	4.0	2.8	3.9	######	9.9
% loss from PCB	0%	0%	20%	20%	20%	0%	0%	0%	20%	**0%**	20%	**20%**	0%	0%	0%	**0%**	**0%**	0%	0%	0%	0%	0%	0%	**20%**

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Parameter	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3201	3203	3204	3205	3206	3207	3209	3210	3211	3212	3213	3214
actual TOC	2.44%	1.42%	3.02%	2.96%	3.87%	2.60%	1.00%	**5.40%**	3.30%	2.80%	2.70%	3.60%	1.37%	3.84%	4.15%	1.91%	0.39%	1.36%	2.14%	**6.47%**	2.48%	2.65%	2.30%	4.77%
PAH dry wt (ppm)	3.177	2.216	6.726	4.55	3.01	9.891	0.579	6.483	4.51				2.305	3.944	4.113	3.252	0.509	0.526	1.142	4.051	12.181	1.619	8.548	12.651
PAH - OC (ppm)	130.2	156.1	222.7	152.7	77.8	380.4	57.9	120.1	136.7	0.0	0.0	0.0	168.2	102.7	99.1	170.3	129.8	38.7	53.4	62.6	491.2	61.1	371.7	265.2
% loss	20%	20%	20%	20%	20%	20%	20%	20%	20%				20%	20%	20%	20%	20%	0%	20%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	123	27	390	340	310	184 U		210	320	211	1390	250	31	48	97	216	119	23	33	119	83	118 U		297
PCB-oc (ppm)	5.0	1.9	12.9	11.4	8.0	7.1	#######	3.9	9.7	7.5	51.5	6.9	2.3	1.3	2.3	11.3	30.4	1.7	1.5	1.8	3.3	4.5	######	6.2
% loss from PCB	0%	0%	20%	20%	20%	0%	0%	0%	20%	**20%**	20%	**0%**	0%	0%	0%	**20%**	**20%**	0%	0%	0%	0%	0%	0%	**0%**

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normalization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Parameter	3215	3216	3217	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111	4115	4116	4117	4118	4119	4120	4201
approximate TOC	3%	3%	3%	3%	3%	3%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
PAH dry wt (ppm)	15.769	3.312	1.895	2.018	0.35	4.151	110.296	1.237	5.072	13.727	3.344	9.225	5.259	2.997	2.501	0.102	0.181	2.796	16.549	8.206	4.237	4.378	3.373	3.119
PAH-oc (ppm)	525.6	110.4	63.2	67.3	11.7	138.4	5514.8	61.9	253.6	686.4	167.2	461.3	263.0	149.9	125.1	5.1	9.1	139.8	827.5	410.3	211.9	218.9	168.7	156.0
% loss	40%	20%	20%	20%	0%	20%	60%	20%	20%	40%	20%	20%	20%	20%	20%	0%	0%	20%	40%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	132	270	32	28 U		25	440	45	134	545	156	1210	560	125	359	218	245	268	178	2900	2855	167	208	55
PCB-oc (ppm)	4.4	9.0	1.1	0.9	######	0.8	22.0	2.3	6.7	27.3	7.8	60.5	28.0	6.3	18.0	10.9	12.3	13.4	8.9	145.0	142.8	8.4	10.4	2.8
% loss from PCB	0%	20%	0%	0%	0%	0%	20%	0%	0%	20%	**20%**	20%	20%	0%	20%	**20%**	20%	20%	20%	20%	20%	**20%**	20%	0%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

Parameter	3215	3216	3217	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111	4115	4116	4117	4118	4119	4120	4201
actual TOC	2.62%	2.23%	1.26%	1.36%	1.39%	1.41%	2.91%	1.92%	3.02%	**6.94%**	**6.32%**	3.63%	4.42%	2.90%	4.40%	2.99%	3.20%	3.20%	1.50%	3.80%	**6.70%**	2.40%	2.70%	2.14%
PAH dry wt (ppm)	15.769	3.312	1.895	2.018	0.35	4.151	110.296	1.237	5.072	13.727	3.344	9.225	5.259	2.997	2.501	0.102	0.181	2.796	16.549	8.206	4.237	4.378	3.373	3.119
PAH - OC (ppm)	601.9	148.5	150.4	148.4	25.2	294.4	3790.2	64.4	167.9	197.8	52.9	254.1	119.0	103.3	56.8	3.4	5.7	87.4	1103.3	215.9	63.2	182.4	124.9	145.7
% loss	40%	20%	20%	20%	0%	20%	40%	20%	20%	20%	20%	20%	20%	20%	20%	0%	0%	0%	40%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	132	270	32	28 U		25	440	45	134	545	156	1210	560	125	359	218	245	268	178	2900	2855	167	208	55
PCB-oc (ppm)	5.0	12.1	2.5	2.1	######	1.8	15.1	2.3	4.4	7.9	2.5	33.3	12.7	4.3	8.2	7.3	7.7	8.4	11.9	76.3	42.6	7.0	7.7	2.6
% loss from PCB	0%	20%	0%	0%	0%	0%	20%	0%	0%	20%	**0%**	20%	20%	0%	20%	**0%**	20%	20%	20%	20%	20%	**0%**	20%	0%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PC3 in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated ard % loss assigned.
Percent loss assignec based on ranking of TOC normalized effects evels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approximation, but may not work as well for intertidal.

Parameter	4202	4203	4204	4205	4206	4207	4208	4209	4210	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112	5113	5114	5115
approximate TOC	2%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
PAH dry wt (ppm)	2.375	1.849	3.175	14.03	2.053	1.14	2.76	4.823	1.748	4.713	1.764	2.631	2.099	1.167	5.027	1.757	2.945	3.364	1.606	3.028	6.37	1.375	1.556	3.592
PAH-oc (ppm)	1188	92.5	158.8	701.5	102.7	57.0	138.0	241.2	87.4	471.3	176.4	263.1	209.9	116.7	502.7	175.7	294.5	336.4	160.6	302.8	637.0	137.5	155.6	359.2
% loss	20%	20%	20%	40%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%	20%	20%	20%	20%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	U	54	1806	1370	240	U	215	172	62	75	U	93	50	340	310	133	530	920	155	500	539	370	168	239
PCB-oc (ppm)	######	2.7	90.3	68.5	12.0	#VALUE!	10.8	8.6	3.1	7.5	######	9.3	5.0	34.0	31.0	13.3	53.0	92.0	15.5	50.0	53.9	37.0	16.8	23.9
% loss from PCB	0%	0%	20%	20%	20%	0%	**20%**	**20%**	0%	0%	0%	**20%**	0%	20%	20%	**20%**	20%	20%	**20%**	20%	20%	20%	20%	20%

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TCC values, TOC normalzed PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects evels and hypothetical assigned losses driven by fish.

Parameter	4202	4203	4204	4205	4206	4207	4208	4209	4210	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112	5113	5114	5115
actual TOC	1.82%	0.75%	2.31%	4.53%	3.70%	0.46%	**5.23%**	**5.12%**	3.30%	1.92%	1.77%	2.43%	1.81%	1.69%	2.27%	2.52%	3.23%	2.42%	2.47%	2.89%	2.66%	1.44%	2.04%	2.60%
PAH dry wt (ppm)	2.375	1.849	3.175	14.03	2.053	1.14	2.76	4.823	1.748	4.713	1.764	2.631	2.099	1.167	5.027	1.757	2.945	3.364	1.606	3.028	6.37	1.375	1.556	3.592
PAH - OC (ppm)	130.5	247.9	137.4	309.7	55.5	248.9	52.8	94.2	53.0	245.5	99.7	108.3	116.0	69.1	221.5	69.7	91.2	139.0	65.0	104.8	239.5	95.5	76.3	138.2
% loss	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
PCB dry wt (ppb)	U	54	1806	1370	240	U	215	172	62	75	U	93	50	340	310	133	530	920	155	500	539	370	168	239
PCB-oc (ppm)	######	7.2	78.2	30.2	6.5	#VALUE!	4.1	3.4	1.9	3.9	######	3.8	2.8	20.1	13.7	5.3	16.4	38.0	6.3	17.3	20.3	25.7	8.2	9.2
% loss from PCB	0%	0%	20%	20%	20%	0%	**0%**	**0%**	0%	0%	0%	**0%**	0%	20%	20%	**0%**	20%	20%	**0%**	20%	20%	20%	20%	20%

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 6. TOC normallization calculations for PAHs and PCBs

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and approximate TOC values, TOC normalized PCB and PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.
Subtidal approximate TOCs are good approxmation, but may not work as well for intertidal.

Parameter	5116	5120	5121	5201	5202	5203	5205	5206	5207	5208	5209	5210	5211	5212	5213	5214	5215	
approximate TOC	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	
PAH dry wt (ppm)	2.498	1.856	1.127	3.509	20.17	25.832	15.335	15.718	10.267	10.273	10.268	29.168	13.56	6.605	1.18	0.647	54.658	
PAH-oc (ppm)	249.8	185.6	112.7	350.9	2017.0	2583.2	1533.5	1571.8	1026.7	1027.3	1026.8	2916.8	1356.0	660.5	118.0	64.7	5465.8	
% loss	20%	20%	20%	20%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	20%	20%	60%	3980% Sum PAH % when estimate TOC used
PCB dry wt (ppb)	366	51	74	33	208	24550	350	3650	1290 U	U	U	U		183 U		49	140	
PCB-oc (ppm)	36.6	5.1	7.4	3.3	20.8	2455.0	35.0	365.0	129.0 #######	#VALUE!	#######	######		18.3 ######		4.9	14.0	
% loss from PCB	20%	0%	0%	0%	20%	80%	20%	40%	20%	0%	0%	0%	0%	20%	0%	0%	20%	1880% Sum PCB % when estimate TOC used

Using unfactored dry weight data from Tables D-30 and D-31 in Appendix D, and actual TOC values, TOC normalized PAH values calculated and % loss assigned.
Percent loss assigned based on ranking of TOC normalized effects levels and hypothetical assigned losses driven by fish.

											SM							
Parameter	5116	5120	5121	5201	5202	5203	5205	5206	5207	5208	5209	**5210**	5211	5212	5213	5214	5215	
actual TOC		1.60%	1.80%	2.36%	2.56%	2.32%	1.39%	1.72%	1.87%	4.88%	1.81%	4.17%	3.12%	1.46%	2.30%	1.53%	1.80%	
PAH dry wt (ppm)	2.498	1.856	1.127	3.509	20.17	25.832	15.335	15.718	10.267	10.273	10.268	29.168	13.56	6.605	1.18	0.647	54.658	
PAH - OC (ppm)	#DIV/0!	116.0	62.6	148.7	787.9	1113.4	1103.2	913.8	549.0	210.5	567.3	699.5	434.6	452.4	51.3	42.3	3036.6	
% loss		20%	20%	20%	40%	40%	40%	40%	40%	20%	40%	40%	20%	20%	20%	0%	40%	3740% Sum PAH % when actual TOC used
PCB dry wt (ppb)	366	51	74	33	208	24550	350	3650	1290 U	U	U	U		183 U		49	140	
PCB-oc (ppm)	#DIV/0!	3.2	4.1	1.4	8.1	1058.2	25.2	212.2	69.0 #######	#VALUE!	#######	######		12.5 ######		3.2	7.8	
% loss from PCB	20%	0%	0%	0%	20%	80%	20%	40%	20%	0%	0%	0%	0%	20%	0%	0%	20%	1800% Sum PCB % when actual TOC used

PAH in ppm-toc	% loss
50	20%
500	40%
5000	60%
7600	80%

PCB in ppm-toc	% loss
7.5	20%
168	40%
400	60%
896	80%

Table 7. Stations passing bioassays

Reference	Station	Amphipod	Neanthes	Echinoderm note 1	Benthic	note 1: HCC re-test
Event 1A,!B data rep	HY-01	X	X	X	fail M	of suspect
	HY-02	X	X	fail	fail M	Trustee data
	HY-03	X	X	X	X	
	HY-04	X	X	X	fail M,C	
X = pass	**HY-05**	X	X	X	X	
	HY-06	X	X	X	fail M	
	HY-07	X	X	X	fail M	
	HY-08	X	X	X	fail P,C,M	
	HY-09	X	X	X	fail P,C,M	
	HY-10	fail	X	X	X	
	HY-11	X	X	X	fail P,C	
	HY-12	X	X	X	X	
	HY-13	X	X	X	fail M	
	HY-14	X	X	X	fail M	
	HY-15	X	X	X	X	
	HY-16	X	X	X	X	
	HY-17	X	X	X	fail M	
	HY-18	X	X	X	X	
	HY-19	X	X	X	X	
	HY-20	X	X	X	X	
	HY-21	X	X	X	X	
	HY-22	X	X	X	X	
	HY-23	X	X	fail	X	
	HY-24	fail	X	fail	fail M	benthic results for
	HY-25	X	X	fail	fail M	HY-24 through
	HY-26	X	X	X	fail M	HY-28 have problems
	HY-27	X	X	X	fail M	with suitable
	HY-28	X	X	X	fail M	reference station
PRDE R2DR	**1203**	X	X	X		
	1117	X	X	X		
	1144	X	X	X		
	1104	fail	X	X	fail M	
	1122	X	X	X		
	1210	X	X	X		
	1208	X	X	X		
	2208	X	X	X		
	2119	X	X	X		
	2113	fail	X	X		
	2114	fail	X	X		
	2105	X	X	X		
	2212	X	X	X		
	3213	X	X	X		
	3214	X	X	X		
	3215	X	X	X		
	3206	X	X	X		
	3210	X	X	X		
	3211	X	X	X		
	3221	X	X	fail		
	3117	X	X	X		
	4117	X	X	X		
	4119	X	X	X		
	4116	X	X	X		
	4106	fail	X	X	fail P,M	
	4107	X	X	X	fail P,M	
	4111	X	X	X	fail M	
	4101	X	X	X	fail P	
	4119	X	X	X		
	5112	X	X	X		
	5213	X	X	X		
	5212	fail	X	X		
	5102	X	X	X		
	5107	X	X	X		
	5505	X	X	X		
	5508	X	X	X		
	5503	X	X	X		

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead oi dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs PCBs

Other parameters still requiring TOC adjustment include: BBPH BEPH DDD DDE DDT DEPH DMP DMPH DOPH HCB HCBD MDCB PDCB TBT TCB

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																										
Parameter	HY-1	HY-2	**HY-3**	HY-4	**HY-5**	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	**HY-12**	HY-13	HY-14	**HY-15**	**HY-16**	HY-17	**HY-18**	**HY-19**	**HY-20**	**HY-21**	**HY-22**	HY-23	HY-24	HY-25	HY-26
Ag																										
As																									5%	
BBPH																***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*10%*	***5%***	*5%*	
BEPH																								***5%***		
Cd																										
Cr																										
Cu																										
DDD																										
DDE																									*10%*	*10%*
DDT																					***10%***					
DEPH																***5%***					***5%***			***5%***		
DMP																										
DMPH																								***5%***		
DOPH																										
HCB			***5%***	*5%*	***5%***	*5%*	*5%*	*5%*	*10%*	*5%*	*5%*	***5%***			***5%***	***5%***			***5%***	***5%***	***5%***					
HCBD	*5%*	*5%*	***5%***		***5%***	*10%*	*15%*	*15%*	*15%*	*5%*	*5%*	***5%***	*5%*	*5%*	***5%***	***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	*5%*	*5%*			
Hg								5%							**5%**	**5%**		**5%**	**5%**	**5%**	5%	**5%**	5%	5%	5%	5%	5%
MDCB																										
Ni																										
PAHs	20%	20%	**40%**	20%	**20%**	20%	20%	20%	20%	20%	20%	**20%**	20%	20%	**20%**	**20%**	20%	**20%**	**40%**	**20%**	**20%**	**20%**	20%	40%	20%	40%
Pb																										
PCBs		20%	**20%**	20%	**20%**	20%	20%	20%	20%	20%	20%	**20%**	20%	20%	**20%**	**20%**	20%	**20%**	**20%**	**20%**	**20%**	**20%**	20%	20%	20%	20%
PCP	5%	5%	5%	5%	5%	5%	5%	5%	20%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																										
Sb																										
TBT			***5%***						*5%*	*5%*				*5%*		***5%***		***5%***	***5%***	***5%***	***5%***			*5%*	*5%*	*5%*
TCB					*5%*	*20%*	*5%*	*20%*	*10%*	*20%*	*5%*	***5%***							***5%***		***5%***					
Zn																***5%***										

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead oi dry weight AETs.

Data adjusted to TOC normalized criteria for

Other parameters still requiring TOC adjustment incluce:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	**1117**	1118	1119	1120	1121	**1122**	1123	1124	1125
Ag																								
As				5%												**5%**					**10%**			
BBPH	*5%*	*5%*	*5%*	*10%*			*5%*		*5%*							***5%***								
BEPH		*5%*																						
Cd																								
Cr																								
Cu																								
DDD		*10%*																						
DDE		*10%*																						
DDT																								
DEPH																								
DMP																								
DMPH													*5%*		*5%*						***5%***			
DOPH																***5%***								
HCB																								
HCBD																								
Hg	5%	5%		5%					5%														5%	
MDCB																								
Ni																								
PAHs	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%		20%	**20%**	20%	20%	40%	20%	**20%**			20%
Pb																								
PCBs	20%			20%																				
PCP	5%	5%														5%								
PDCB																								
Sb			5%	5%			5%		5%	5%						**10%**					**5%**			
TBT		*5%*					*5%*									***5%***	*5%*		*5%*	*5%*	***5%***			
TCB																								
Zn							5%																	

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead oi dry weight AETs.

Data adjusted to TOC normalized criteria or

Other parameters still requiring TOC adjustment include:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station / Parameter	1126	1127	1133	1201	1202	**1203**	1204	1205	1206	1207	**1208**	1209	**1210**	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	**2105**	2106	2107
Ag																											
As											**10%**					10%			10%	10%		5%					5%
BBPH									*5%*						*5%*							*5%*	*5%*			*5%*	*5%*
BEPH																											
Cd																											
Cr																											
Cu															15%				15%	15%							
DDD																											
DDE																							*10%*	*10%*			
DDT																								*10%*			*20%*
DEPH																											
DMP																											
DMPH			*5%*	*5%*									***15%***	*5%*	*20%*												
DOPH																											
HCB																								*5%*			*5%*
HCBD																											
Hg																						5%	5%	5%	**5%**		5%
MDCB																											
Ni																											
PAHs	20%		20%	20%	20%	**40%**	20%						**20%**	20%	20%	20%			20%	20%	20%	20%	20%	20%	**20%**	20%	20%
Pb																				15%							
PCBs																						20%		20%	**20%**	20%	20%
PCP															5%												
PDCB																											
Sb	5%			5%						5%	**10%**				5%	10%		5%	10%	20%			5%		**5%**		5%
TBT			*5%*												*20%*				*20%*								
TCB																											
Zn																			15%	15%							

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for

Other parameters still requiring TOC adjustment include:

[Note: "J" qualified data for incividual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station 2108	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	**2208**	2209	2210	2211	**2212**	2213	2214	2215	3101	3102	3103
Ag										10%															
As					10%	10%	20%			15%		10%	10%		**5%**	5%			**5%**						
BBPH	*5%*		*5%*				*5%*	*10%*				*5%*				*5%*	*10%*		***10%***	*5%*	*10%*	*5%*	*5%*	*5%*	*5%*
BEPH																		20%							
Cd																		5%							
Cr										5%								5%							
Cu										20%															
DDD						*20%*							*20%*												
DDE							*10%*						*20%*												
DDT		*10%*				*20%*	*20%*					*10%*	*20%*												
DEPH																									
DMP							*5%*																		
DMPH																						*5%*			
DOPH																*5%*		*5%*							
HCB							*5%*					*5%*											*5%*		
HCBD					*5%*		*5%*						*5%*												
Hg			5%			5%	15%	5%					20%					5%							
MDCB																									
Ni																									
PAHs	20%	20%	20%	20%	20%	40%	40%	20%		40%	20%	20%	40%	20%	**20%**	20%	20%	40%	**20%**	0%	20%	20%	20%	20%	20%
Pb										20%															
PCBs	20%			20%	20%	20%	20%	20%	20%	20%		20%	20%				20%	20%	**20%**			20%		0%	
PCP																									
PDCB																									
Sb	5%	5%		5%	10%		10%			20%	5%	5%	5%		**10%**	10%	5%	5%	**5%**	5%					
TBT																									
TCB																									
Zn					10%		5%	10%		20%								10%							

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria or

Other parameters still requiring TOC adjustment include:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3201	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215
Parameter																								
Ag																								
As																			**10%**	**5%**				
BBPH		*5%*																	***5%***		*10%*		***20%***	***10%***
BEPH																							***20%***	
Cd																							**20%**	
Cr																							**10%**	
Cu															**15%**								**20%**	**15%**
DDD																								
DDE																								
DDT																								***10%***
DEPH																					*5%*			
DMP																								
DMPH																						***5%***	***5%***	***15%***
DOPH																								
HCB																								
HCBD																								
Hg																							**5%**	
MDCB																								
Ni																							**20%**	
PAHs	20%	20%	20%	20%	20%	20%	20%				20%	20%	20%	20%	**20%**	0%		20%	**20%**	**20%**	20%	**20%**	**20%**	**40%**
Pb																							**20%**	
PCBs	20%	20%	20%				20%	20%	20%					20%	**20%**									
PCP												5%												5%
PDCB																								
Sb				5%		5%									**5%**			5%	**10%**	**5%**	5%		**5%**	
TBT	*5%*			*20%*			*5%*																	
TCB																								
Zn																			**5%**				**20%**	

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for

Other parameters still requiring TOC adjustment include:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																															
Parameter	3216	3217	3218	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111			4115	**4116**	**4117**	4118	**4119**	4120	4201	4202	4203	4204	4205
Ag																															
As						10%																	10%		5%					20%
BBPH	*10%*									*5%*			*10%*																	*5%*
BEPH													*20%*																	
Cd																															
Cr																									5%				10%	20%
Cu						10%																	15%							15%
DDD							*10%*														***10%***									
DDE																														
DDT																					***10%***									
DEPH																														
DMP							*5%*																							
DMPH																														
DOPH													*5%*																	
HCB							*5%*																							
HCBD																														
Hg											5%																			
MDCB																														
Ni																														
PAHs	20%	20%		20%	0%	20%	40%	20%	20%	20%	20%	20%	20%	20%	20%	0%	0%			0%	**40%**	**20%**	20%	**20%**	20%	20%	20%	20%	20%	20%
Pb																														15%
PCBs	20%						20%			20%		20%	20%		20%		20%			20%	**20%**	**40%**	20%		20%				20%	20%
PCP																														
PDCB																														
Sb						10%		5%				5%		5%	5%					5%			10%		10%				10%	20%
TBT																														
TCB																														
Zn						10%																**5%**		**10%**						15%

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for

Other parameters still requiring TOC adjustment include:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																														
Parameter	4206	4207	4208	4209	4210						5101	**5102**	5103	5104	5105	5106	**5107**	5108	5109	5110	5111	**5112**	5113	5114	5115	5116	5120	5121	5201	5202
Ag		10%																												
As		10%																											5%	
BBPH	*5%*			*10%*	*5%*													*5%*												
BEPH	*20%*																													*20%*
Cd																														
Cr																													5%	
Cu		20%																											20%	15%
DDD																														
DDE																														
DDT																														
DEPH																														
DMP																														
DMPH																														
DOPH																														
HCB													*5%*	*5%*	*5%*	*5%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*10%*				
HCBD													*5%*		*5%*	*15%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*5%*				
Hg																		5%					5%							
MDCB																														
Ni																														
PAHs	20%	20%	20%	20%	20%						20%	**20%**	20%	20%	20%	20%	**20%**	20%	20%	20%	20%	**20%**	20%	20%	20%	20%	20%	20%	20%	40%
Pb	10%																													
PCBs	20%														20%	20%		20%	20%		20%	**20%**	20%	5%	20%	20%				20%
PCP																			5%											
PDCB																														
Sb	10%	15%	5%																										10%	5%
TBT																													*5%*	*5%*
TCB																		*10%*			*5%*									
Zn		10%																											10%	15%

Table 8. Corrections for TOC normalization for PAHs and PCBs added in to Table 2.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted (before pro-rating) sheet 3

Values at bold stations still need to be changed due to bioassays; Those shown passed all bioassays. Many others passed some bioassays.

Italics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for

Other parameters still requiring TOC adjustment include:

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

	Station																	
Parameter	5203		5205	5206	5207	5208	5209	5210	5211	5212	**5213**	5214	5215	sum	Removed U values	Removed factors	Some Us retained	TOC normalized
Ag											**10%**			30%	n.a.	yes		
As													5%	245%	n.a.	yes		
BBPH														*315%*	yes	yes		
BEPH	*20%*													*130%*	n.a.	yes		
Cd														25%	n.a.	yes		
Cr	15%		5%	5%						20%			5%	110%	n.a.	yes		
Cu	15%			5%				5%					15%	250%	n.a.	yes		
DDD														*70%*	yes	n.a.		
DDE									*20%*					*100%*	yes	n.a.		
DDT														*140%*	yes	n.a.		
DEPH														*20%*	yes	n.e.		
DMP														*10%*	yes	n.e.		
DMPH								*5%*						*105%*	yes	yes		
DOPH														*20%*	yes	yes		
HCB	*5%*		*5%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*				*340%*	n.a.	yes		
HCBD	*5%*		*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*					*400%*	yes	yes		
Hg	5%		5%	15%				5%						215%	n.a.	yes		
MDCB	*5%*													*5%*	yes	n.e.		
Ni	20%					20%								60%	n.a.	n.e		
PAHs	40%		40%	40%	40%	20%	40%	*40%*	20%	20%	**20%**	0%	40%	3780%		yes	yes	yes
Pb	15%			5%	15%	20%	20%	20%			**20%**			195%	n.a.	yes		
PCBs	60%		20%	20%	20%					20%			20%	1765%	yes	yes	yes	yes
PCP				5%	5%		5%	20%						210%	yes			
PDCB	*20%*													*20%*	n.a.	n.e.		
Sb	10%		5%	5%	5%	5%	5%	10%	5%		**10%**		10%	485%	yes	yes		
TBT													*5%*	*185%*	n.a.	n.a.		
TCB	*20%*		*5%*			*5%*	*20%*	*5%*						*170%*	n.a.	yes		
Zn	10%			10%					5%				10%	230%	n.a.	yes		
														9630%	Sum of sums = about 41% less			
															based on removing U values, removing factors,			
															doubling DDD, DDE and DDT, and TOC normalzing PAHs and PCBs,			

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating)

sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay tes: results.

Italics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs PCBs

Other parameters in ***italics*** still need TOC corrections.

[Note: "J" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station HY-1	HY-2	HY-3	HY-4	HY-5	HY-6	HY-7	HY-8	HY-9	HY-10	HY-11	HY-12	HY-13	HY-14	HY-15	HY-16	HY-17	HY-18	HY-19	HY-20	HY-21	HY-22	HY-23	HY-24	HY-25	HY-26
Ag																										
As																									5%	
BBPH																***5%***		***5%***	***5%***	***5%***	***5%***	***5%***	***10%***	***5%***	***5%***	
BEPH																								***5%***		
Cd																										
Cr																										
Cu																										
DDD																						.				
DDE																									***10%***	***0%***
DDT																					***0%***					
DEPH																***5%***					***5%***			***5%***		
DMP																										
DMPH																								***5%***		
DOPH																										
HCB			***0%***	*5%*	***0%***	*5%*	*5%*	*5%*	*10%*	*5%*	*5%*	***0%***			***0%***	***0%***			***0%***	***0%***	***0%***					
HCBD	*5%*	*5%*	***0%***		***0%***	*10%*	***10%***	***10%***	***10%***	*5%*	*5%*	***0%***	*5%*	*5%*	***0%***	***0%***		***0%***	***0%***	***0%***	***0%***	***0%***	*5%*	*5%*		
Hg								5%							**5%**	**5%**		**5%**	**5%**	**5%**	**5%**	**5%**	5%	5%	5%	5%
MDCB																										
Ni																										
PAHs	20%	20%	**30%**	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	**30%**	20%	20%	20%	20%	40%	20%	**30%**
Pb																										
PCBs		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
PCP	5%	5%	5%	5%	5%	5%	5%	5%	20%	5%	5%	5%		5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
PDCB																										
Sb																										
TBT			***5%***						*5%*	*5%*				*5%*		***5%***		***5%***	***5%***	***5%***	***5%***			*5%*	*5%*	*5%*
TCB					***0%***	***5%***	*5%*	*5%*	***5%***	*20%*	*5%*	***0%***							***0%***		***0%***					
Zn																**0%**										

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																								
Parameter	HY-27	HY-28	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1117	1118	1119	1120	1121	1122	1123	1124	1125
Ag																								
As				5%												**5%**					**5%**			
BBPH	*5%*	*5%*	*5%*	*10%*			*5%*		*5%*							***5%***								
BEPH		*5%*																						
Cd																								
Cr																								
Cu																								
DDD		*10%*																						
DDE		***0%***																						
DDT																								
DEPH																								
DMP																								
DMPH													*5%*		5%						***5%***			
DOPH																***5%***								
HCB																								
HCBD																								
Hg	5%	5%		5%					5%														5%	
MDCB																								
Ni																								
PAHs	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%		20%	**20%**	20%	20%	40%	20%	**20%**			20%
Pb																								
PCBs	20%			20%																				
PCP	5%	5%														5%								
PDCB																								
Sb			5%	5%			5%		5%	5%						**5%**					**5%**			
TBT		*5%*					*5%*									***5%***	*5%*		*5%*	*5%*	***5%***			
TCB																								
Zn							5%																	

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station 1126	1127	1133	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	2101	2102	2103	2104	2105	2106	2107
Ag																											
As											**5%**					10%			10%	10%		5%					5%
BBPH									*5%*						*5%*							*5%*	*5%*			*5%*	*5%*
BEPH																											
Cd																											
Cr																											
Cu															15%				15%	15%							
DDD																											
DDE																							*10%*	*10%*			
DDT																								*10%*			*20%*
DEPH																											
DMP																											
DMPH			*5%*	*5%*									**5%**	*5%*	*20%*												
DOPH																											
HCB																								*5%*			*5%*
HCBD																											
Hg																						5%	5%	5%	**5%**		5%
MDCB																											
Ni																											
PAHs	20%		20%	20%	20%	**40%**	20%						**20%**	20%	20%	20%			20%	20%	20%	20%	20%	20%	20%	20%	20%
Pb																				15%							
PCBs																						20%		20%	20%	20%	20%
PCP															5%												
PDCB																											
Sb	5%			5%						5%	**5%**				5%	10%		5%	10%	20%			5%		**5%**		5%
TBT			*5%*												*20%*				*20%*								
TCB																											
Zn																			15%	15%							

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay tes: results.

Italics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***italics*** stil need TOC corrections.

[Note: "J" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station 2108	2109	2110	2111	2112	2113	2114	2115	2116	2202	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	3101	3102	3103
Ag										10%															
As					10%	10%	**15%**			15%		10%	10%		**5%**	5%			**5%**						
BBPH	*5%*		*5%*				*5%*	*10%*				*5%*				*5%*	*10%*		**5%**	*5%*	*10%*	*5%*	*5%*	*5%*	*5%*
BEPH																		*20%*							
Cd																		5%							
Cr										5%								5%							
Cu										20%															
DDD						**10%**							20%												
DDE							**5%**						20%												
DDT		*10%*				**0%**	**0%**					*10%*	20%												
DEPH																									
DMP							*5%*																		
DMPH																						*5%*			
DOPH																*5%*		*5%*							
HCB							*5%*					*5%*											*5%*		
HCBD					*5%*		*5%*						*5%*												
Hg			5%			5%	**10%**	5%					20%					5%							
MDCB																									
Ni																									
PAHs	20%	20%	20%	20%	20%	**30%**	**30%**	20%		40%	20%	20%	40%	20%	**20%**	20%	20%	40%	**20%**	0%	20%	20%	20%	20%	20%
Pb										20%															
PCBs	20%			20%	20%	20%	20%	20%	20%	20%		20%	20%				20%	20%	**20%**			20%		0%	
PCP																									
PDCB																									
Sb	5%	5%		5%	10%		10%			20%	5%	5%	5%		**10%**	10%	5%	5%	**5%**	5%					
TBT																									
TCB																									
Zn					10%		5%	10%		20%								10%							

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deleted (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "U" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																														
Parameter	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113						3201		3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215
Ag																														
As																									**5%**	**5%**				
BBPH		*5%*																							***5%***		*10%*		***5%***	***5%***
BEPH																													***5%***	
Cd																													**0%**	
Cr																													**5%**	
Cu																					**0%**								**0%**	**0%**
DDD																														
DDE																														
DDT																														***0%***
DEPH																											*5%*			
DMP																														
DMPH																												***5%***	***5%***	***5%***
DOPH																														
HCB																														
HCBD																														
Hg																													**5%**	
MDCB																														
Ni																													**0%**	
PAHs	20%	20%	20%	20%	20%	20%	20%									20%		20%	20%	20%	20%	0%		20%	20%	20%	20%	20%	20%	40%
Pb																													**0%**	
PCBs	20%	20%	20%				20%	20%	20%											20%	20%									
PCP																		5%												5%
PDCB																														
Sb				5%		5%															**5%**			5%	**5%**	**5%**	5%		**5%**	
TBT	*5%*			*20%*			*5%*																							
TCB																														
Zn																									**5%**				**5%**	

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating)

Loss percents shown n **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "J" qualified data for individual PAHs and PCBs are still included in total PAHs and total PCBs]

Parameter	Station 3216	3217	3218	3219	3220	3221	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110	4111	4115	4116	4117	4118	4119	4120	4201	4202	4203	4204	4205
Ag																												
As						10%															10%		5%					20%
BBPH	*10%*									*5%*			*10%*															*5%*
BEPH													***5%***															
Cd																												
Cr																							5%				10%	20%
Cu						10%															15%							15%
DDD							*10%*												***10%***									
DDE																												
DDT																			***0%***									
DEPH																												
DMP							*5%*																					
DMPH																												
DOPH													*5%*															
HCB							*5%*																					
HCBD																												
Hg											5%																	
MDCB																												
Ni																												
PAHs	20%	20%		20%	0%	20%	**30%**	20%	20%	20%	20%	20%	20%	20%	20%	0%	0%	0%	**30%**	20%	20%	20%	20%	20%	20%	20%	20%	20%
Pb																												15%
PCBs	20%						20%			20%		20%	20%		20%		20%	20%	20%	**20%**	20%		20%				20%	20%
PCP																												
PDCB																												
Sb						10%		5%				5%		5%	5%			5%			10%		10%				10%	20%
TBT																												
TCB																												
Zn						**5%**														**5%**		**5%**						15%

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "U" qualified data for incividual PAHs and PCBs are still included in total PAHs and total PCBs]

Station																														
Parameter	4206	4207	4208	4209	4210				5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112	5113	5114	5115	5116	5120	5121	5201	5202
Ag		10%																										
As		10%																									5%	
BBPH	*5%*			*10%*	*5%*											*5%*												
BEPH	*20%*																											*20%*
Cd																												
Cr																											5%	
Cu		20%																									20%	15%
DDD																												
DDE																												
DDT																												
DEPH																												
DMP																												
DMPH																												
DOPH																												
HCB											*5%*	*5%*	*5%*	*5%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*10%*				
HCBD											*5%*		*5%*	*15%*	***5%***	*20%*	*15%*	*5%*	*5%*	***5%***	*5%*		*5%*	*5%*				
Hg																5%					5%							
MDCB																												
Ni																												
PAHs	20%	20%	20%	20%	20%				20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	40%
Pb	10%																											
PCBs	20%												20%	20%		20%	20%		20%	20%	20%	20%	20%	20%				20%
PCP																	5%											
PDCB																												
Sb	10%	15%	5%																								10%	5%
TBT																											*5%*	*5%*
TCB																*10%*			*5%*									
Zn		10%																									10%	15%

Table 9. Corrections for bioassay results added in to Table 4.

Corrected injury assigned when use of multiplier factors deleted and use of "U" qualified data deletec (before pro-rating) sheet 4

Loss percents shown in **BOLD** are decreased to reflect bioassay test results.

Itallics represent parameters that still need to be related to TOC normalized AETs instead of dry weight AETs.

Data adjusted to TOC normalized criteria for PAHs and PCBs.

Other parameters in ***itallics*** still need TOC corrections.

[Note: "U" qualified data for incividual PAHs and PCBs are still included in total PAHs and total PCBs]

	Station																		
Parameter	5203	5205	5206	5207	5208	5209	5210	5211	5212	5213	5214	5215	sum	Removed U values	Removed factors	Some Us retained	TOC normalized	bioassay corrected	
Ag										**5%**			25%	n.a.	yes			yes	driven by bivalve AET
As												5%	225%	n.a.	yes			yes	
BBPH													*290%*	yes	yes			*yes*	*driven by microtox*
BEPH	*20%*												*100%*	n.a.	yes			*yes*	
Cd													5%	n.a.	yes			yes	
Cr	15%	5%	5%						**10%**			5%	95%	n.a.	yes			yes	driven by bivalve AET
Cu	15%		5%				5%					15%	200%	n.a.	yes			yes	
DDD													*60%*	yes	n.a.			*yes*	
DDE								*20%*					*75%*	yes	n.a.			*yes*	
DDT													*70%*	yes	n.a.			*yes*	
DEPH													*20%*	yes	n.e.			*n.e.*	*driven by bivalve AET*
DMP													*10%*	yes	n.e.			*n.e.*	
DMPH							5%						*85%*	yes	yes			*yes*	*driven by microtox*
DOPH													*20%*	yes	yes			*n.e.*	*driven by bivalve AET*
HCB	*5%*	*5%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*5%*				*300%*	n.a.	yes			*yes*	
HCBD	*5%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*	*20%*					*335%*	yes	yes			*yes*	*non-HYs driven by microtox*
Hg	5%	5%	15%				5%						210%	n.a.	yes			yes	
MDCB	*5%*												*5%*	yes	n.e.			*n.e.*	*driven by bivalve AET*
Ni	20%				20%								40%	n.a.	n.e			yes	
PAHs	40%	40%	40%	40%	20%	40%	*40%*	20%	20%	20%	0%	40%	3710%	no	yes	yes	yes	yes	
Pb	15%		5%	15%	20%	20%	20%			**0%**			155%	n.a.	yes			yes	
PCBs	60%	20%	20%	20%					20%			20%	1760%	yes	yes	yes	yes	yes	
PCP			5%	5%		5%	20%						210%	yes				n.e.	driven by bivalve AET
PDCB	*20%*												*20%*	n.a.	n.e			*n.e.*	
Sb	10%	5%	5%	5%	5%	5%	10%	5%		**5%**		10%	465%	yes	yes			yes	driven by bivalve AET
TBT												*5%*	*185%*	n.a.	n.a.			*yes*	
TCB	*20%*	*5%*			*5%*	*20%*	*5%*						*115%*	n.a.	yes			*yes*	*driven by microtox*
Zn	10%		10%					5%				10%	200%	n.a.	yes			yes	
													8990%	Sum of sums = about 45% less					

based on removing U values, removing factors, doubling DDD, DDE and DDT,
TOC normalizing PAHs and PCBs, and allowing bioassay override.