

AD-A286 433



MENTATION PAGE Dist: A

Form 404 Rev. 1
OMB NO. 0704-0188

①

1. PURPOSE AND SCOPE: This report was prepared in response to the request of the Office of Naval Research, Department of the Navy, for information on the role of resuspension in the transport and bioaccumulation of toxic organic contaminants in the nearshore marine environment. The report was prepared by the Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882-1197.

REPORT DATE
10/11/942. REPORT TYPE AND DATES COVERED
Final Report-FR91-93 1.50M 94
31 May 94

4. TITLE AND SUBTITLE

Role of Resuspended Sediments in the Transport and Bioaccumulation of Toxic Organic Contaminants in the Nearshore Marine Environment

6. AUTHOR(S)

J.S. Latimer
Graduate School of Oceanography, Univ of RI
Narragansett, RI 02882-1197

5. FUNDING NUMBERS

AFOSR910304

611030

3484-R

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

6. PERFORMING ORGANIZATION REPORT NUMBER

AFOSR-TR- 94 0704

5-35150

8. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

AFOSR
Building 410
Bowling AFB, DC 20332-6448

10. SPONSORING/MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT

Unlimited

12b. DISTRIBUTION CODE

A

13. ABSTRACT (Maximum 200 words)

A particle entrainment simulator was used to simulate conditions during resuspension events in order to investigate how resuspension affects the chemical behavior of hydrophobic organic contaminants such as PCBs and PAHs in the coastal marine environment. Organic contaminants were evaluated in bulk sediments, sized fractionated sediments and resuspended particulate material. The sediments evaluated represented distinctions in contaminant loadings and sediment textural characteristics. It was concluded that contaminants are injected into the overlying water column in direct response to the severity of the resuspension events. In general, on a volume normalized basis (i.e., mass L⁻¹ of water) the contaminants showed elevated levels as the applied shear increased from 2 to 5 dynes cm⁻²; however, on a mass normalized and organic carbon normalized basis, the chemical loadings decreased with increasing applied shear. Differences in the general behavior were traced to the textural and chemical differences of the bulk sediments used for resuspension experiments. It was concluded that the exact behavior of the contaminants was likely related to the amount of and contaminant load on material entrained during resuspension events and represents the interplay of: (1) dilution from depleted coarse grained material, (2) fortification from more highly loaded coarse grained materials as in the case of PAHs with log K_{ow} >6 and (3) the effects from fine grained highly enriched material.

14. SUBJECT TERMS

Keywords—resuspension, organic contaminants, contaminated sediments, pollution

15. NUMBER OF PAGES

11pp + 4 Append

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT

18. SECURITY CLASSIFICATION OF THIS PAGE

19. SECURITY CLASSIFICATION OF ABSTRACT

20. LIMITATION OF ABSTRACT

FINAL TECHNICAL REPORT
OF
THE UNIVERSITY OF RHODE ISLAND
TO
THE AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
PURSUANT TO AFOSR AWARD NO. AFOSR-91-0304

October 11, 1994

Project Title:

THE ROLE OF RESUSPENDED SEDIMENTS IN THE TRANSPORT AND
BIOACCUMULATION OF TOXIC ORGANIC CONTAMINANTS IN THE
NEARSHORE MARINE ENVIRONMENT

Principal Investigators:

JAMES S. LATIMER
JAMES G. QUINN

X -

Affiliation:

UNIVERSITY OF RHODE ISLAND
GRADUATE SCHOOL OF OCEANOGRAPHY
NARRAGANSETT, RI 02882

A-1

94-35973



TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
MATERIALS AND METHODS	1
Sampling	1
Experimental	3
Analytical	5
Hydrophobic Organic Contaminants	5
Particle Size and Organic Carbon	5
RESULTS AND DISCUSSION	5
Particle Dynamics During Resuspension	5
Chemical Changes During Resuspension	17
Solid Phase Interactions	18
Solid-Liquid Phase Interactions	26
CONCLUSIONS	32
Acknowledgments	33
REFERENCES	34
APPENDICES	

INTRODUCTION

The degree of ecological stress that hydrophobic organic contaminants (HOCs) exert on the marine environment is directly related to their concentration in the various compartments of the system, the time in each of the compartments, and the rate of exchange between compartments. The processes that control the removal of HOCs from the water column compartment include, lateral or advective outflow, volatilization, bioaccumulation, degradation and burial in the sediments. Since the sediments are repositories for many particle active contaminants, it is important to understand the mechanisms that control chemical flux so that the potential effects from contaminated resuspended sediments can be assessed. Within the active sediment layer a natural periodic resuspension-deposition succession takes place corresponding to wind or tidally induced energy frequencies. In addition, by feeding, locomotion, and habitat formation, benthic animals resuspend sediments or otherwise modify physical resuspension (Davis, 1993). A sufficient treatment of the factors affecting transport and resuspension can be found in a recent summary article (Bedford, 1994). In dynamic systems such as coastal areas, pelagic organisms will be exposed to significant temporal concentration shifts as exchange between compartments takes place. For example, Boehm has shown that PCB, PAH, and coprostanol levels can change by as much as a factor of ten over one tidal cycle (Boehm, 1983). These changes appear to be controlled by a complex function of the movement of contaminated suspended and resuspended sediments in the water body.

The purpose of this study was to investigate how the concentration of hydrophobic organic toxics on resuspended particles varied with:

- applied bottom shear
- resuspended sediment concentration
- bulk sediment contamination
- bulk sediment mineralogy

The study is based on experiments using the Particle Entrainment Simulator (PES, Figure 1) (Tsai and Lick, 1986). The sediments used for the experiments were obtained from Black Rock Harbor, CT and Narragansett Bay, RI.

MATERIALS AND METHODS

Sampling

Sediment samples were taken from 2 sites in Narragansett Bay, RI and one site in Black Rock Harbor near Bridgeport, CT (Table 1). Sediment from Black Rock Harbor had been previously collected using a 0.1 m² gravity box corer (Rogerson *et al.*, 1985). The sediment was subsequently homogenized and sieved to remove shells and sediments of greater than 1 mm, placed in nitrogen purged sealed drums and stored at 4 °C.

Sediments from Narragansett Bay were collected using a Smith-MacIntyre grab sampler. Subsamples (plugs) were obtained by carefully inserting a 12.7 cm diameter stainless steel tube into the sediment making sure that the surface of the sediment remains undisturbed. Locations of the subsamples were selected to capture the undisturbed surface layer. The subsamples were immediately transferred to a precleaned specially designed glass plug cylinder and were covered with seawater and kept at 4 °C in the dark until laboratory tests were initiated, usually within 24 to 48 hours of collection.

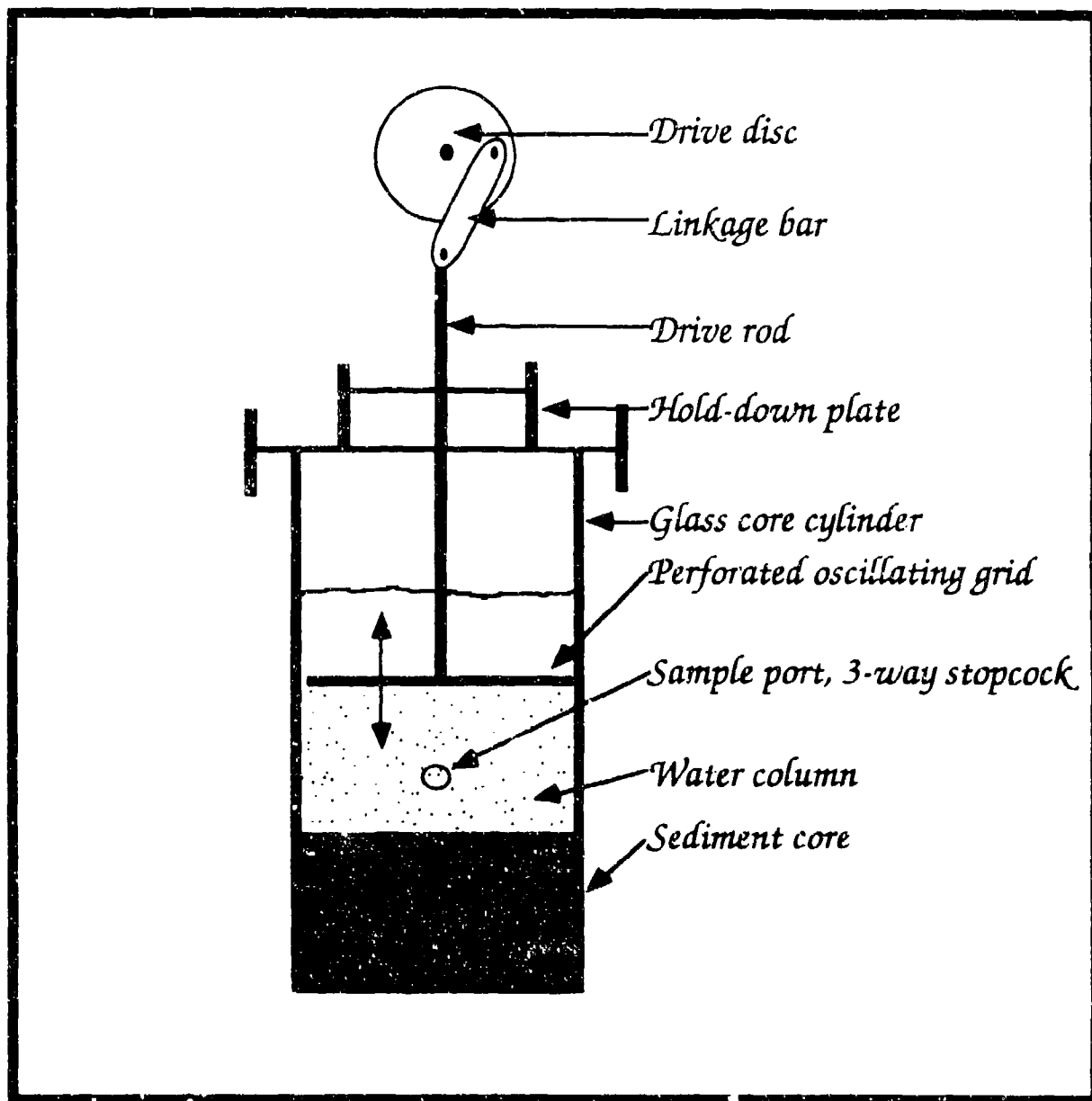


Figure 1. A schematic view of the Particle Entrainment Simulator (PES) used during the resuspension experiments.

Table 1.
Sampling data for the study

Site	Location PES- Sediment	Collection Type	Depth m
BRH - Black Rock Harbor, CT	41°09'N 73°13'W	Box Corer	Unk.
Narragansett Bay, RI			
PR - Providence River (Gaspee Pt.)	41°45.37'N 71°22.20'W	S-M	5.5
RP - Rocky Point	41°41.59'N 71°20.94'W	S-M	6.1

S-M = Smith-MacIntyre grab (0.1 m²).

Experimental

Each sediment sample was securely positioned in the PES and underwent resuspension experiments according to previously outlined procedures (Keith *et al.*, 1991; Lavelle and Davis, 1987). Briefly, sediment plug cores were positioned such that the sediment was 2-3 cm below the furthest extent of the oscillating disk. The sediments were subjected to artificial resuspension experiments using the PES under two to four resuspension energy levels ranging from 2 to 5 dynes cm⁻². The applied shear stresses were considered typical of tidally induced near bottom shear stresses (Bokuniewicz *et al.*, 1991; Keith *et al.*, 1991) but lower than others (Partheniades, 1965). During each experiment, after the core was mounted to the PES apparatus, the simulator was adjusted to a known oscillation magnitude (seconds cycle⁻¹) corresponding to a pre-calibrated shear stress. The shear stress levels that the PES has been calibrated at are 2, 3, 4, and 5 dynes cm⁻², corresponding to 0.16, 0.12, 0.10, and 0.08 s c⁻¹ of the perforated disk (Lavelle and Davis, 1987).

The determination of the steady state condition was accomplished by evaluating the turbidity of the overlying water using a single beam spectrophotometer (i.e., Bausch & Lomb, Spectronic 20). If the variability in measured percentage transmission was less than a two per cent, the system was considered to be at steady state for the given shear level; thereupon samples were taken. It was not always necessary to track the response of the system up to the steady state condition; previous experience allowed samples to be evaluated after approximately 15 minutes to assess the variation in turbidity. Figure 2 depicts typical light attenuation data (100-% T) for the cores examined. Samples for total resuspended solids concentration, hydrophobic organic, particle size, and organic carbon were collected under steady state conditions.

All collected sediment samples were evaluated for organic contaminant loadings (PCBs and PAHs), organic carbon content, and particle size - textural properties. Filtrate samples were evaluated for dissolved phase organic contaminants. Bulk sediments were also studied for organic contaminants, organic carbon and particle size - textural properties.

Providence River PES Experiments

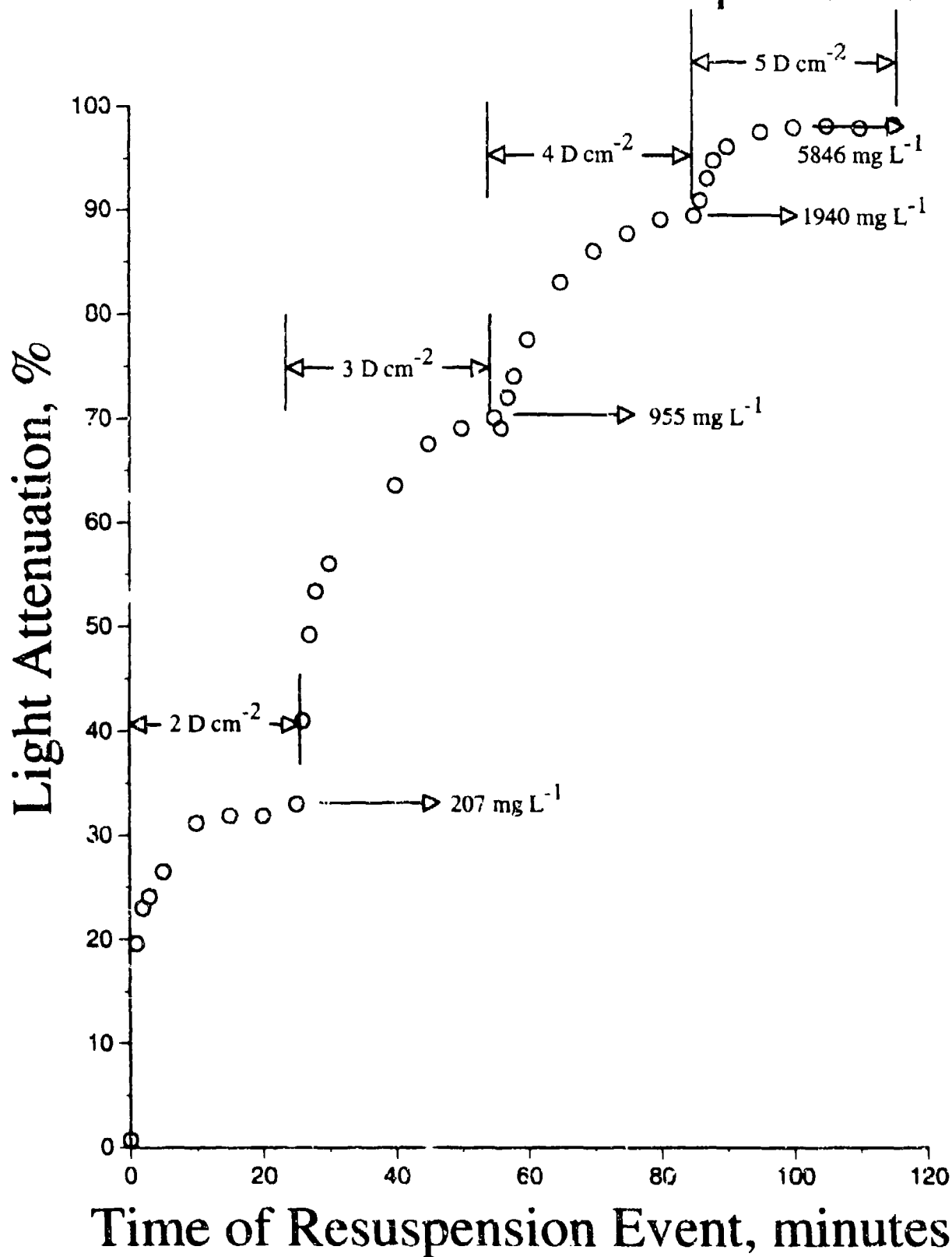


Figure 2. A typical light attenuation curve for the resuspension studies.

Analytical

Hydrophobic Organic Contaminants

The samples were extracted with methanol or acetone to isolate the organic contaminants from the particulates. After polarity enhancement with high-purity water and solvent exchange into hexane, the extracts were separated into multiple fractions using micro-silica gel column chromatography. The organic contaminants in the different fractions were measured by high resolution capillary gas chromatography (GC) relative to internal standards, using gas chromatography-mass selective detection (HP 5971 GC-MSD) and gas-chromatography-electron capture detection (HP 5890 I GC-ECD). The analytical methods have been described in detail (LeBlanc *et al.*, 1992; Latimer *et al.*, 1991; Latimer *et al.*, 1990; Pruell and Quinn, 1985).

Quality assurance was accomplished through various means to certify that all analytical operations were under quality control. The precision of the procedures was measured as the relative standard deviation (RSD) of replicate analyses, which were conducted on selected samples over the course of the project. In most cases, the RSDs were 10% or better. The accuracy of the procedures was measured as percentage recovery of a standard mixture (containing analytes) spiked into blank samples at concentrations similar to the lower values that were determined in the field samples. These fortified blanks were analyzed over the course of the projects. In most cases, the recoveries were within 80-120 percent of the concentration in the spiked mixture, and in many cases the values were within $\pm 10\%$. In addition, accuracy was measured as percentage recovery of specific organics in Standard Reference Materials (SRM), including NIST SRM 1649 (Urban Dust-PAHs), NIST 1941 (PAHs, PCBs in Marine sediment) and Canadian NRC SRM HS-2 (PCBs in marine sediment) carried through the entire analytical procedure. This was done several times over the course of the projects, and at least 70% of the analytes were within 70-130 percent of the stated values, and many were within $\pm 10\%$.

The average detection limits for a 0.01 g (dry weight) sample are approximately as follows: individual PAHs 20 ng/g, individual chlorobiphenyl congeners 2 ng/g. However, actual detection limits can be as low as 0.2 and 0.01 ng/g, respectively, depending upon the mass of particulate material in the sample. For dissolved organic constituents the detection limits are 1 ng/L for PAHs and 0.05 ng/L for chlorobiphenyls and pesticides.

Particle Size and Organic Carbon

The percentages by volume of sand, silt, and clay in suspended sediments and bulk sediments were obtained using two methods: (1) a Brinkmann Particle Analyzer CIS1000; (2) wet sieving and using a settling column with gravimetric measurement. The procedures for analysis using the CIS1000 are outlined in the standard operating manual at the ERL-N. Briefly, chilled samples are diluted into a flask containing deionized water and a chemical surfactant. Samples are then mixed and allowed to stand for 12 to 24 hours; afterward, the sample is sonicated and further mixed. The sample solution is then introduced into the scanning chamber to undergo analysis. Deionized water is used to check the instrument background.

The second method involved the wet sieving of sediment to remove the > 0.063 mm particles (i.e., sand) followed by the application of Stokes settling law in a large graduated cylinder to determine the amount of silt and clay. This method is widely used and is highly reproducible (Mueller *et al.*, 1992; Keith *et al.*, 1991).

RESULTS AND DISCUSSION

Particle Dynamics During Resuspension

The major factors that determine the magnitude and duration of entrainment and deposition of sediments are: the nature of the fluid mechanics, the composition and the spatial distribution of the

bottom material. The nature of the fluid mechanics includes the momentum fields at the various boundary layers in the near bottom environment including: (1) motions of long and short-period surface gravity and/or internal waves; (2) mean flow; (3) Coriolis effects; (4) turbulence from shear, bottom roughness, wave breaking, etc.; and (5) stratification effects (Bedford, 1994). Tidal currents and wind induced resuspension is particularly important in estuaries (Sanford, 1994). Entrainment and deposition are also a function of the nature of the bottom material. Specifically, geotechnical characteristics (e.g., particle texture/mineralogy), water content, and extent of biological activity all modify the magnitude of resuspension. Fine-grained particles are easily resuspended leaving behind the larger grained materials that act to armor the sediments against further entrainment (Lavelle and Davis, 1987). As the sediments age they compact, forming a more cohesive substrate that causes the rate of entrainment to decrease with depth, all other variables being equal (Lick and Kang, 1987). These processes limit resuspension to a finite amount at any given stress. Infaunal and epifaunal organisms can have a positive or negative effect on the entrainment rates. Organisms such as *Yoldia limatula*, *Macoma tenta*, and *Pectinaria gouldi* cause resuspension by their biofunctions (feeding, locomotion, and habitat development) (Davis, 1993; Davis and Means, 1986; Bender and Davis, 1984). Motile organisms such as *Nucula annulata* can act to destabilize cohesive sediments which makes them more susceptible to resuspension (Davis and Means, 1986).

Entrainment, expressed as a rate (E), given as,

$$E = h \frac{dC}{dt} \quad (\text{as } C \rightarrow 0) \quad (1)$$

is the flux of sediment across the sediment water interface under conditions when the concentration (C) of sediments in the overlying water (h = depth of overlying water) is near zero (Fukuda and Lick, 1980). E will decrease as the resuspension event continues until ($dC/dt = 0$) the rate of entrainment is equal to the rate of deposition (D). The light attenuated by the resuspended material will vary with turbidity and TSS concentration. It must be noted that the detection of LA is affected by the saturation of the detection system. Others have noted that 100% attenuation can be approached at 3000 mg L⁻¹. For the bedded sediments from Narragansett Bay this approach to saturation did not occur until the shear was at 4-5 dynes cm⁻². The Black Rock Harbor PES cores were highly unstable owing to the small particle sizes of the sediments; this instability lead to very fast entrainment and quick saturation of the spectrophotometric detector used to measure turbidity. The attenuation measurements near the saturation point are unreliable and require dilution and re-measurement to obtain reasonable LA estimates. Previous authors have derived equations to predict the concentration of suspended solids from LA (Davis, 1993; Keith *et al.*, 1991; Lavelle and Davis, 1987). Using the light attenuation-time relationships (see Figure 2 for an typical curve), and the equation,

$$C_{ss} \text{ (g L}^{-1}\text{)} = \left[\left(\frac{1}{k_1} \ln \left(k_2 - \frac{LA}{k_3} \right) \right) \right] \frac{1}{k_2} \quad (2)$$

previously published (Davis, 1993; Keith *et al.*, 1991) TSS concentrations were calculated for all the PES samples. The k values published are constants empirically derived from a variety of sediment types. In addition to the semi-empirical equation previously published, the measured TSS concentrations were used to establish a relationship to LA under the actual experimental conditions. The best fit of these data was obtained using an exponential function (Figure 3):

$$C_{ss} \text{ (mg L}^{-1}\text{)} = 47.8 e^{(3.89E-2 \text{ LA})} \quad (3)$$

The equation was reasonably accurate for LA ranging from 30-90% and as such it was applicable to TSS concentrations up to approximately 2000 mg L⁻¹. Figure 4 presents the predicted results for the bedded sediments for the two equations. Equation 3 yielded reliable TSS levels for the 2, 3, and 4 dynes cm⁻² shear levels but underestimated them for the 5 dynes cm⁻² experiments. The calculated solids concentrations, using the semi-empirically derived equation (equation 2), showed

a slight overestimation at the lower applied shears but was more predictive at the higher energy levels. Again one must keep in mind that inaccuracies in TSS estimates are greatest when the spectroscopic detector becomes saturated.

Once the TSS concentrations were estimated entrainment rates could be calculated using the previously published equation (Lavelle and Davis, 1987):

$$E = \frac{\alpha_1 h}{(1 - \frac{C_0}{\alpha_2})} \quad (4)$$

Where α_1 is the rate of change in concentration during conditions where deposition was likely minimal (less than 5 minutes); α_2 is the equilibrium concentration; and C_0 is the initial concentration. This equation is based on assumptions derived from the conditions encountered using the PES: a) no radial dependence to erosion or concentration; b) minimal vertical dependence to the concentration; c) the resuspended particles have a single deposition velocity. As expected, the entrainment rates generally increased with increasing applied shear, confirming what others have noted: that shear is one of the controlling factors in resuspension behavior (Partheniades, 1965).

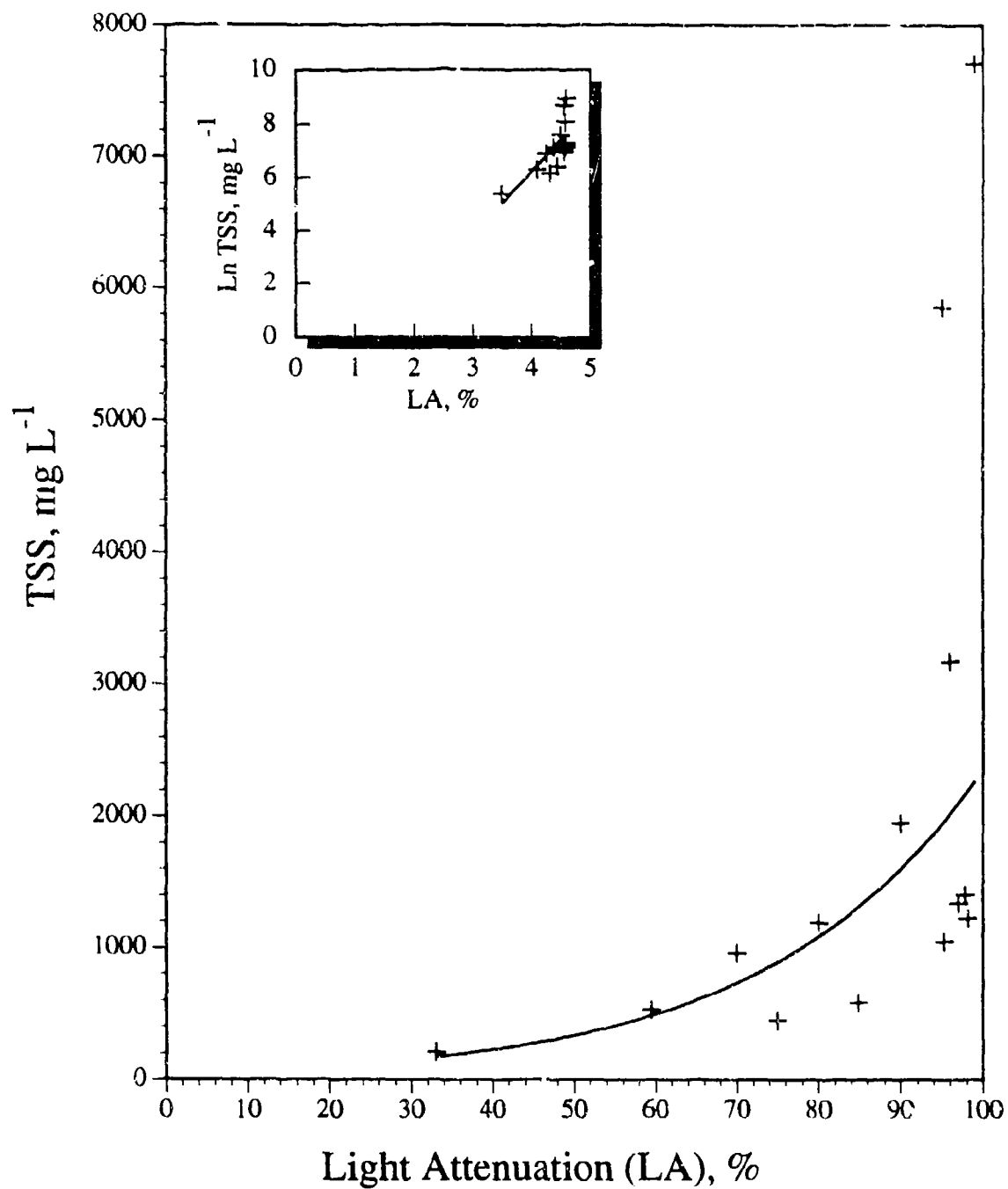


Figure 3. The relationship between light attenuation and total suspended solids during the resuspension experiments.

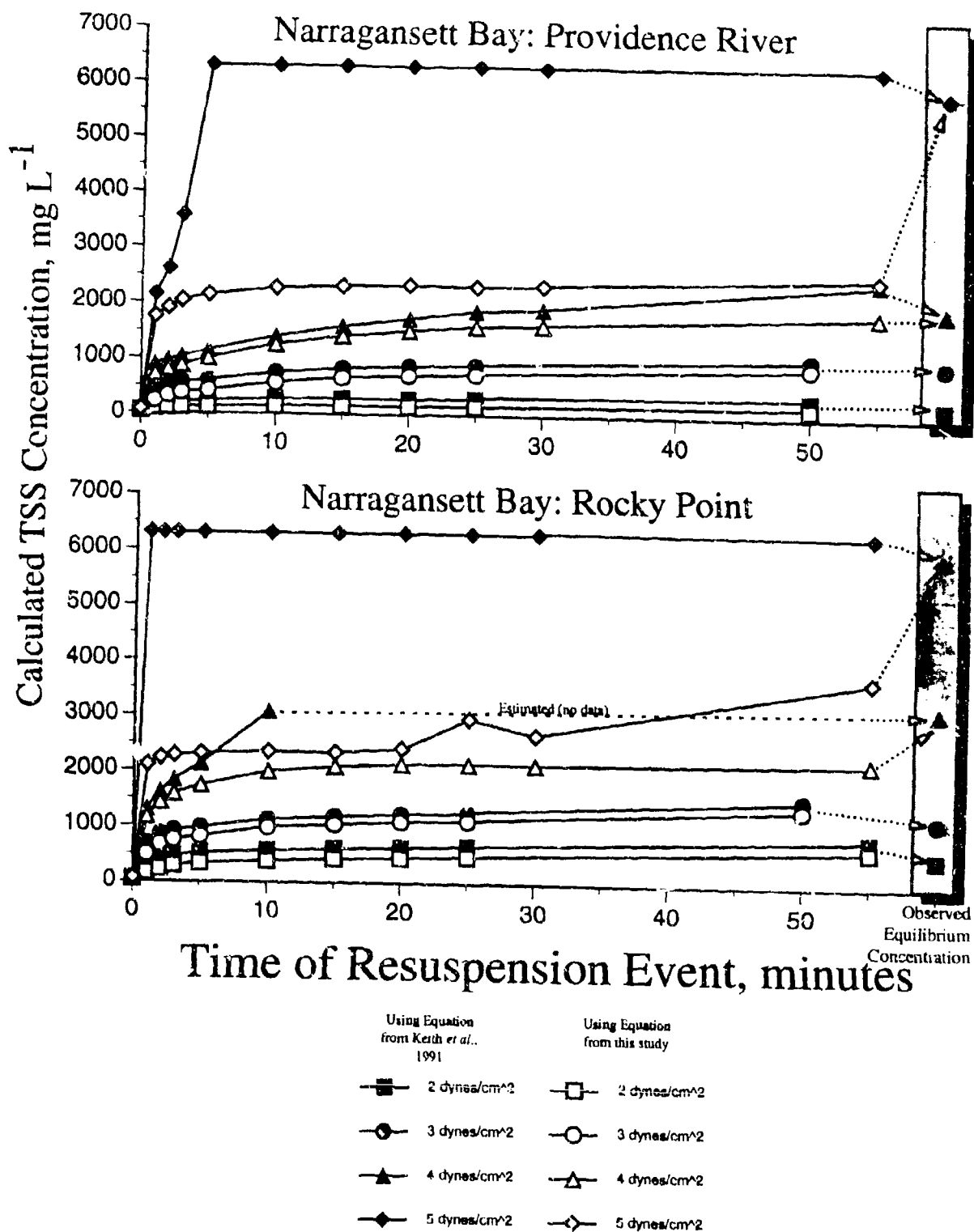


Figure 4. Calculated total suspended solids concentrations using equations from this as well as other studies.

The mass entrainment rates calculated for the PES experiments were greater than those measured using sediments from Puget Sound or other parts of Narragansett Bay (Table 2 and Figure 5). The reasons are likely due to the differences in sediment particle size distribution, mineralogy or water content as well as biological influences. Sediment texture properties and water content have been found to be correlated with entrainment rate (Keith *et al.*, 1991). Although the data from the literature is incomplete it appears that textural/grain size factors are not sufficient to explain the differences. For example, of the sediments compared, NB station 12 (Table 3) had a mean grain size of 13.5 μm that was considerably lower than the sediment with the smallest grain sizes in this study (i.e., BRH = 29.5 μm VWM). Moreover, the other two sediment cores tested in this study had mean grain sizes (PR = 84.6 and RP = 81.5 μm) well above the next closest sediment (NB station 6, which had a value of 51 μm). The explanation for the higher entrainment rates must lie in the differences either in water content of the sediments or biological influences. Linear increases in sediment water content have been shown to cause logarithmic increases in E (Fukuda and Lick, 1980). The sediments evaluated during the present study do show a range in water content but the data do not correlate with the observed differences in entrainment rates. Thus, biological influences are the most likely cause of the higher entrainment rates observed in this study. In the case of BRH sediments there were no living benthic or epibenthic faunal observed throughout the experiments; in marked contrast, however, there were large numbers of amphipods, decapods and small worms in both of the sediments from Narragansett Bay. The paradox lies in the fact that an "abiotic" sediment (BRH) and highly biotic sediments (PR and RP) all give greater entrainment rates than other sediments. Considering that the total resuspension rate is the result of two independent and one interacting processes as expressed in the following equation:

$$R_t = R_p + R_{pb} + R_b \quad (5)$$

the term, R_b denotes resuspension caused by biota, the term, R_p , indicates physical resuspension and the term, R_{pb} denotes enhancement or retardation of physical resuspension due to biological interaction. It is here assumed that the brief duration of the PES experiments as well as the stress caused by the experiments themselves limit R_b to a minimum value. Due to the character of the BRH sediments the only active process is resuspension would be strictly due to the applied shear (R_p is large) and that R_{pb} would be small so that there was no reduction in R_t due to biological stabilization. In the case of the two bedded sediments tested, the presence of large numbers of benthic faunal, that can serve to destabilize the sediment surface (large positive R_{pb}), is presumed the cause of the higher entrainment rates. It has been shown that the presence of certain species can increase the entrainment rate by as much as 8 -fold over entrainment rates from sediments that are abiotic (Davis, 1993).

The mass of solids entrained into the overlying water column ranged from 4 to 1700 g m^{-2} for the Black Rock Harbor dredge material, and 3 to 700 g m^{-2} for the bedded sediments. Previous studies of resuspension using Narragansett Bay sediments yielded lower maximum solids fluxes (0.04 to 402 g m^{-2}) (Keith *et al.*, 1991). The flux of resuspended particulates followed an exponential fit for the cores where applied shear was above 3 dynes cm^{-2} (Figure 6). The slopes were relatively constant ranging from 1.0 to 1.2; however, the intercepts ranged from 3.4 to 9.6 g m^{-2} , displaying different behavior between the sediments. The dredge spoil cores (BRH) had similar intercepts (i.e., 8.5 and 9.6, respectively for BRH experiment 2 and 3, mean = 9.1 g m^{-2}) which were approximately twice as great as the intercepts for the bedded natural sediments (i.e., PR and RP). The results are consistent with the fact that bedded sediments are more cohesive and had been armored against resuspension due to the abundance of larger grained sediments or through the action of infaunal organisms. The natural bedded sediments were observed to have a wide variety of infaunal organisms that could be responsible for the decreased entrainment compared to the abiotic BRH sediments; some have shown that certain biological adhesion can stabilize sediments from resuspension (Grant *et al.*, 1982); however, as noted above, the stabilization was not great compared to sediments elsewhere.

The change in the particle characteristics over the duration of the resuspension events gives insight into how sediments react under different turbulence conditions in the marine environment. In the

case of the bedded sediments from the Providence River, the amount of sand, although variable, showed a slight decrease, while the amount of clay increased markedly (from 2 to 7%) as the applied shear increased from 2 to 5 dynes cm^{-2} (Figure 7A, PR PES). The amount of silt remained relatively constant over the course of the experiment for this sediment. These changes were manifested by a decrease in average grain size of resuspended particles with increasing turbulence. It has been demonstrated that for fine grained sediments, as applied shear increases and suspended sediment concentration increases the steady state particle diameter decreases (Lick, 1994). The behavior of the Providence River sediment was in contrast to that of the other bedded sediments (Rocky Point Core, RP PES) as well as the dredge spoil sediment (i.e., BRH PES 1, 2, & 3 Figure 8).

The Rocky Point resuspension experiments reveal a sediment the upper few millimeters of which, on average, are a mix of silt and very fine sand (vfsand). Under steady state conditions of low turbulence (2 dynes cm^{-2}) the particles resuspended are composed of 73% silt and 24% very fine sand, with 3% coarse clay (cclay). As turbulence increased, the proportion of silt decreased (to 58%) with a concurrent increase in vfsand (to 39%). Even though the fraction of clay increased (Figure 7B), because of its small total proportion, the increase was less important than the increased sand levels. As a consequence, the mean particle diameters get larger as the applied shear increased (Figure 8). The BRH sediments exhibited similar behavior, although the amount of sand was less (Figure 7C-E).

The mean particle sizes of the resuspended sediments from the bedded sediments were less than the mean particle size of the bulk sediments, whereas the particle sizes of the resuspended sediments and the bulk sediments from the dredge spoil samples were similar. The bedded and dredge sediments had very different bulk geotechnical characteristics (mean grain size: PR = 85 μm ; RP = 82 μm ; BRH = 30 μm): the Narragansett Bay sediments consisted of nearly 50-50 silt-fine sand; whereas the Black Rock Harbor sediments were mainly comprised of silt (85%). The bulk sediment characteristics are taken from approximately the top 5-10 mm of sediment. Conceptually, during a resuspension episode, small slices of the bedded sediments are entrained into the overlying water column (Calvo *et al.*, 1991a). The material resuspended will be reflective of the sediments from subsequent depths, the characteristics of which will depend upon the profile of the particles with depth in the sediment. Using measured and estimated porosity (69.7-92.3%) and density data (1.5 g cm^{-3} , (Calvo *et al.*, 1991a)) for the bulk sediments, the depths involved during the resuspension events are composed of only the upper 1 mm of sediments, even at the highest experimental applied shears. Thus within these limits, as shear is increased, greater and greater depth populations of particles are entrained. The Black Rock Harbor sediments display a relatively homogeneous sediment whose characteristics do not change markedly with increasing applied shear. This is consistent with the published information on the collection and handling of this material (Rogerson *et al.*, 1985). The data indicate that the Providence River sediments are thus composed of smaller and smaller particles with depth; however, at some depth there needs to be a cache of larger sized particles since the bulk sediment is mainly comprised of fine sand. In contrast, the Rocky Point sediments are graded to larger sized particles with depth. It must be noted that the resuspension at 2 dynes cm^{-2} contains, in all likelihood, both the surface flocculant layer and the more cohesive - larger sized particle layers just below. No data are available for shear levels less than 2 dynes cm^{-2} ; however, others have indicated marked differences in entrainment at the 1 dynes cm^{-2} levels where presumably populations of small particles are entrained at different rates than the larger particles (Lavelle and Davis, 1987).

In summary therefore, the behavior of the resuspended particulates, during periods of shear from 2 - 5 dynes cm^{-2} , revealed differences between bedded relatively cohesionless sediments from Narragansett Bay and more silty, and homogeneous sediments associated with a dredge spoil. The dredge material resuspended readily and showed little change in particle characteristics under widely different applied shears. In contrast the magnitude and type of particles resuspended from bedded sediments appear to be a strong function of the characteristics of the sediment horizons in the upper mm of sediment as well as the applied shear.

Table 2.
Comparison of entrainment rates and deposition velocities for different sediments and using different techniques.

Location	E g cm ⁻² s ⁻¹	W _d cm s ⁻¹	Reference
NB site 6* (2-5 dynes cm ⁻²)	0.01-0.17 x 10 ⁻³	nd	Keith <i>et al.</i> , 1991
NB site 12* (2-5 dynes cm ⁻²)	0.15-2.6 x 10 ⁻³	nd	Keith <i>et al.</i> , 1991
Shilshole Central# (1-5 dynes cm ⁻²)	0.002-0.1 x 10 ⁻³	0.12-0.0046	Lavelle & Davis, 1991
Lake Erie+ (<1-5 dynes cm ⁻²)	4 x 10 ⁻⁸ -0.1 x 10 ⁻³	nd	Fukuda & Lick, 1990
BRH^ (2-4 dynes cm ⁻²)	3.7-130 x 10 ⁻²	0.52-0.025	This Study
PR^ (2-5 dynes cm ⁻²)	0.84-25 x 10 ⁻³	0.043-0.023	This Study
RP^ (2-5 dynes cm ⁻²)	2-20 x 10 ⁻³	0.038-0.025	This Study
BRH* (2-4 dynes cm ⁻²)	2.8-48 x 10 ⁻³	0.17-0.064	This Study
PR* (2-5 dynes cm ⁻²)	0.35-7.3 x 10 ⁻³	0.016-0.019	This Study
RP* (2-5 dynes cm ⁻²)	1.3-7.5 x 10 ⁻³	0.013-0.026	This Study

Legend:

* NB = Narragansett Bay, RI

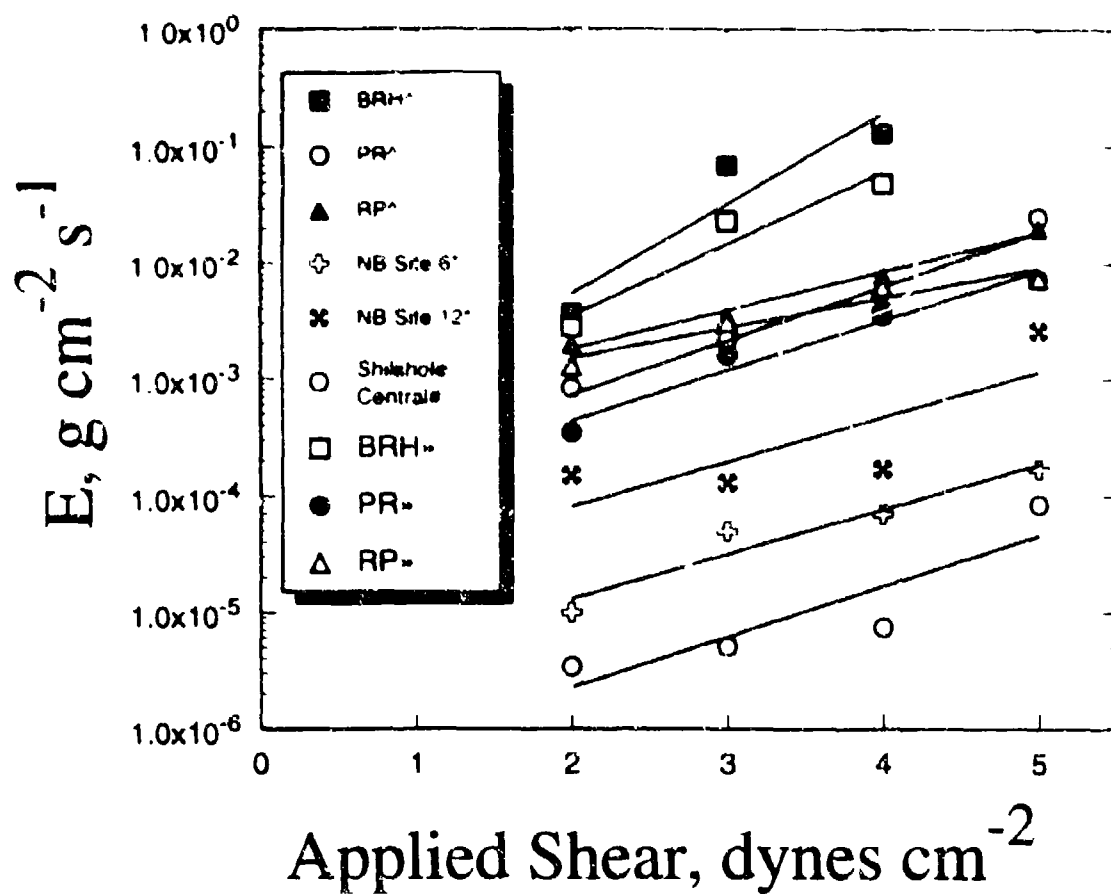
from Puget Sound, WA

+ using a flume

^ using equation from Keith *et al.*, 1991

* using equation from this study

nd = not determined



^{*} calculated from TSS values obtained from equation 2;

^{*} calculated from TSS values obtained from equation 3;

^{*} from Keith *et al.*, 1991 (NB=Narragansett Bay, RI);

[#] from Lavelle and Davis, 1987 (site from Puget Sound, WA).

Figure 5. Calculated entrainment rates for the PES experiments in this study as well as for others.

Table 3

Geotechnical and other properties for the bulk sediments studied in this and other investigations.

Sediment/ Location	Grain Size μm	Textural Properties	Water Content %	Reference
NB site 6	51	vf silty sand	41	Keith <i>et al.</i> , 1991
NB site 12	13.5	fine clayey silt	84	Keith <i>et al.</i> , 1991
Shulshole Central	nr	silt-clay minor sand content	nr	Lavelle & Davis, 1991
BRH	29.5	c/s/s = 3/84/12	80	This Study
PR	84.6	c/s/s = 1/46/53	52	This Study
RP	81.6	c/s/s = 1/47/52	46	This Study

nr = not reported

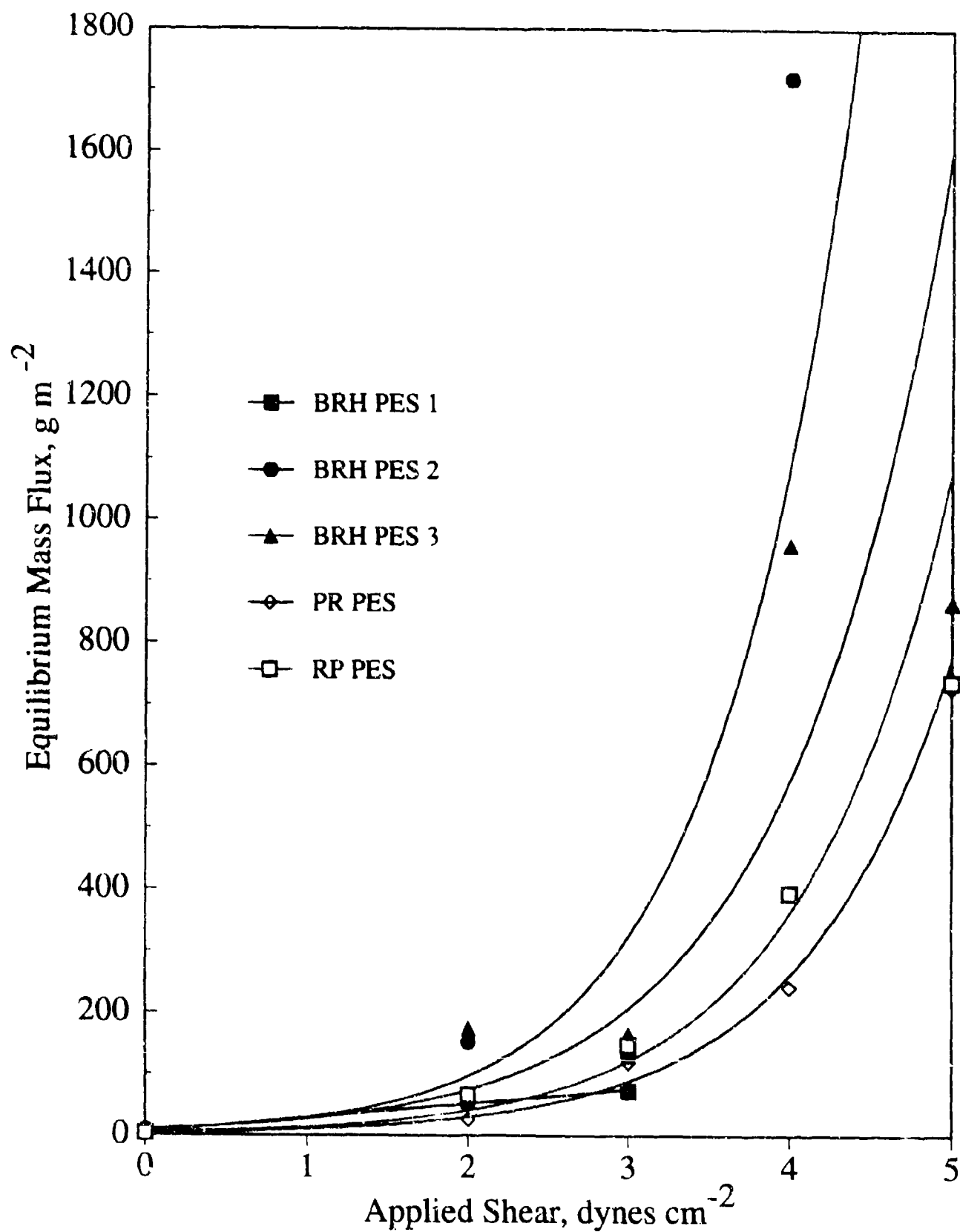


Figure 6. Observed suspended mass flux during the resuspension events using the PES.

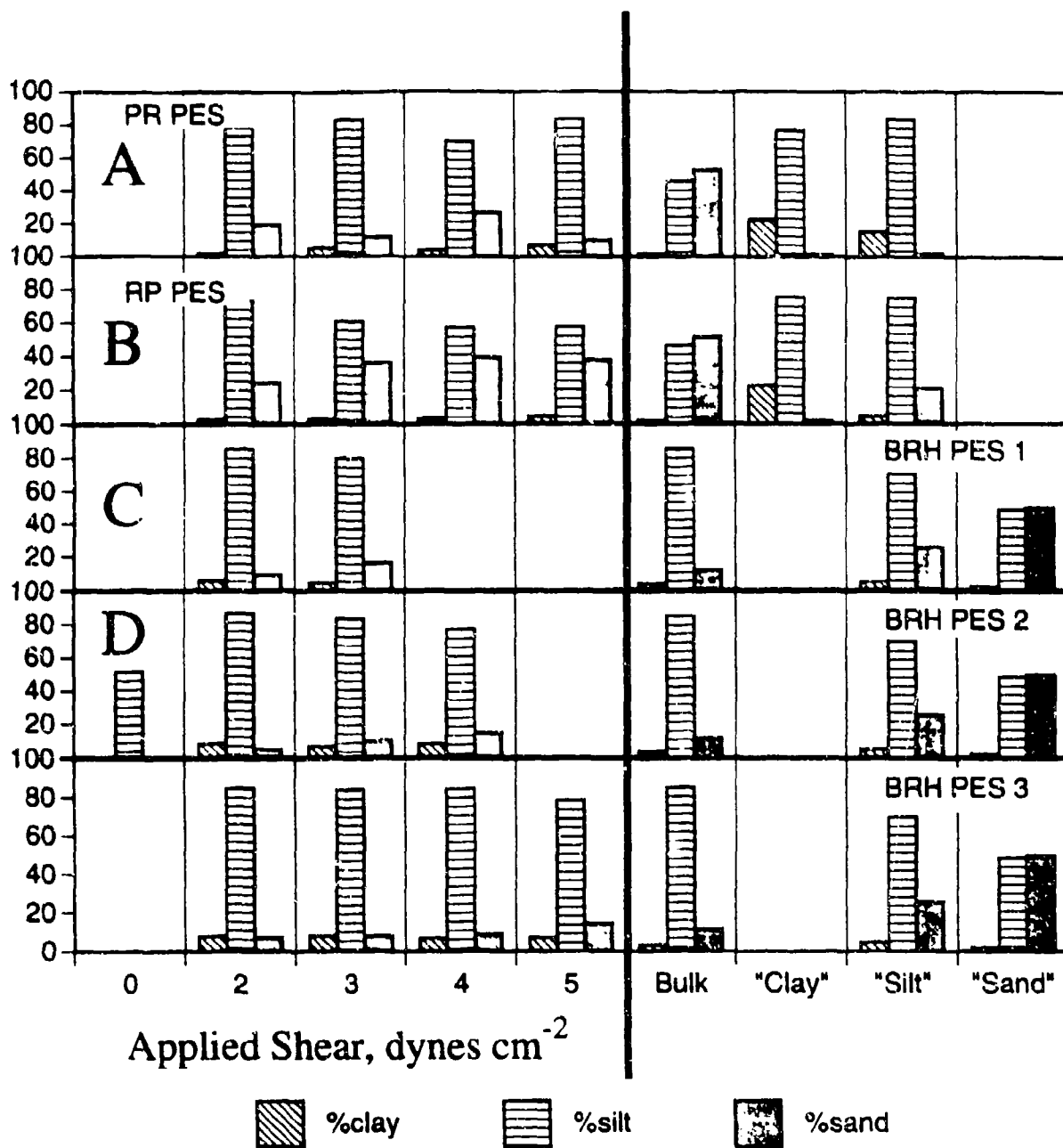


Figure 7. Comparison of the textural properties determined for the resuspended as well as the bulk and size fractionated sediments.

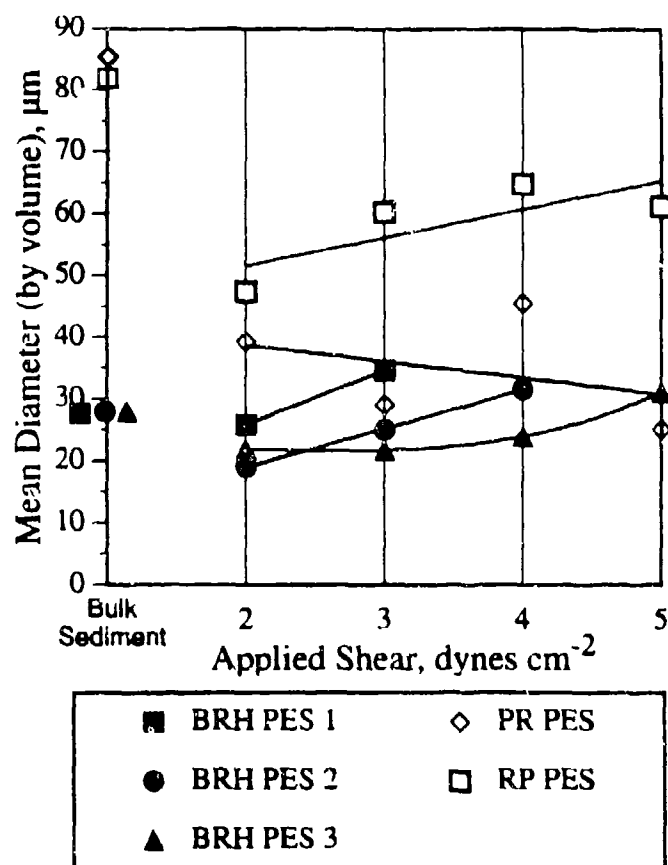


Figure 8. The observed mean particle diameter for the resuspended and bulk sediments evaluated during the study.

Chemical Changes During Resuspension

Interfacial processes play a major role in the fate of contaminants in the marine environment. The sediment-water interface is an active area in which autochthonous and allochthonous particles and associated contaminants settle from the overlying water column. The in-place sediments are well-known repositories for many particle active contaminants including trace metals (Schults *et al.*, 1987), radionuclides (McLean *et al.*, 1991), nutrients (Nixon *et al.*, 1986), and organic contaminants (Latimer and Quinn, In prep.; Latimer *et al.*, 1991). Early in the diagenetic timeline contaminants associated with sediments are subject to remobilization. For example, resuspension of anoxic sediments into oxic bottom waters has been shown to release previously coprecipitated metals (Morse, 1994). Although aerial transport of PCBs and PAHs is an important input mechanism to the ocean, once deposited, their dispersion is mainly controlled by particle dynamics. Resuspension of contaminated marine sediments has been identified as a transport mechanism for organic contaminants (PAH, PCB and coprostanol) between the Hudson River estuary and the continental shelf and between the benthos and water column (Boehm, 1983). In Lake Superior, resuspension events were estimated to cause a 50% increase in PCB levels in the overlying water (Baker *et al.*, 1985). Fluxes of carbon, nitrogen, and bacteria from the sediments during resuspension add significantly to the autochthonous pools in the overlying water column (Wainright, 1990). Moran and Moore have demonstrated that resuspended sediments release dissolved Al into the water column and speculated that elevated levels of Al in certain sections of the North Atlantic Deep Water are due to this phenomenon (Moran and Moore, 1991). Moreover, suspended particulate matter has been shown to have higher levels of nutrients and petroleum hydrocarbons than the nearby surficial sediments (Quinn *et al.*, 1992; Oviatt and Nixon, 1975).

The injection of contaminants into the water column under conditions of resuspension can have a direct effect on the biota. Nutrients from resuspended sediments stimulate the growth of water column bacteria and protozoa (Wainright, 1987) and Pruell has demonstrated that filter feeding organisms (i.e., Blue mussels, *Mytilus edulis*) accumulate hydrophobic organic contaminants from resuspended sediments (Pruell *et al.*, 1987), which may cause toxic effects (Hermesen *et al.*, 1994). In the present study, contaminant behavior during the steady state portion of the resuspension episode was investigated. This is the period when $E = D$ and would represent the period of maximum solids injection into the overlying water column.

Solid Phase Interactions

The formation - destruction of resuspended sediment aggregates plays an important role in the adsorption and desorption of particle active contaminants such as PCBs and PAHs. Resuspension events are dynamic, in which particle concentration and collision frequency increases. These events cause a large amount of material to be entrained into the water column and may accelerate various diagenetic processes such as bacterial attack and oxidation. The net result of these processes will be reflected in the particle data measured during the resuspension experiments. The distribution and concentration data were evaluated a number of ways and statistical as well as qualitative measures of interaction were employed to evaluate the processes operating during the resuspension events simulated. On a volume normalized basis (Figure 9) the concentration of PCBs and PAHs generally increased either linearly or exponentially with increasing applied shear. This is a consequence of the increased suspended solids entrainment with applied shear noted above. Concentrations of particle associated PCBs increased as much 69 times (PR) as the applied shear increased from 2 to 5 dynes cm^{-2} ; for the PAHs an increase of up to 21 times (PR) was measured. These findings reveal that tidal and non tidal turbulence can entrain contaminants into the water column. This behavior has significant implications for dredge spoil disposal sites as well as for urban estuaries and harbors that have large expanses of historically contaminated silty-clayey sediments. Others have noted increases in PCB concentrations in areas of resuspension (Baker *et al.*, 1985). However, due to scale effects and the absence of the u and v contributions to the velocity field, quantitative ecological exposure assessment of the measured concentrations using the PES cannot be readily obtained. Using the PES, others have detected the opposite behavior and attributed it to the entrainment of coarser particles under higher stress conditions (Raccanelli *et al.*, 1989), yet under the present experimental conditions, the coarser particles entrained (Figure 7) were insufficient to depress the contaminant concentrations except in the case of the least contaminated Rocky Point sediments. Thus, the view, based solely on textural considerations, that the higher the applied shear the lower the exposure level to the overlying water column and indigenous organisms, is not always the case. Moreover, knowledge of the textural characteristics of the bulk sediment is not predictive of the exposure fields. Indeed, both the PR and RP sediments had similar bulk sediment characteristics (Figure 7A and B) yet their behavior was significantly different. Although, one must bear in mind that the bulk sediment data represent the top 5-10 mm of sediment, whereas the PES entrains only the top 1mm.

On both mass and on an organic carbon normalized basis, decreased particle loadings of contaminants with increased applied shear were observed (Figure 10). It should be noted that the organic carbon content (range: 3.6-7.3% for resuspended particulates; 2.6-8.3% for bulk sediment) of the resuspended sediments showed similar decreases as applied shear increased, and that the resuspended sediments were generally enriched with respect to the bulk sediments. The trend detected for the total organic contaminants was also observed for many of the individual chlorinated species (Figure 11) as well as for the individual aromatic hydrocarbons, up to benzo(e)pyrene (Figure 12). Others have noted similar decreases for PCBs (Raccanelli *et al.*, 1989) and attributed the behavior to the preferential entrainment of coarser particles with lower contaminant loadings. Scrutiny of the data, however, reveals subtle exceptions to the general observation noted above. Specifically, the high molecular weight PAHs, those with $\log K_{ow} > 6$, exhibited greater loadings at the higher shears. Compare the behavior of fluoranthene ($\log K_{ow} = 5.22$ (Mackay *et al.*, 1992)) with Indeno[1,2,3-cd]pyrene (INP, $\log K_{ow} = 6.25$ (Mackay *et al.*, 1992)) (Figure 13). During periods of highest resuspension, when greater amounts of larger

sized particles are present, INP loadings are enhanced. Thus INP and other similar PAHs may be associated with a larger size fraction of particles. This is not an entirely new assertion; it has been shown that in addition to nuclei ($< 0.08 \mu\text{m}$) and accumulation mode aerosols ($< 0.08 - 2 \mu\text{m}$) (Bidleman, 1988) PAHs have been observed in coarse mode particulates ($> 2 \mu\text{m}$) (Broman *et al.*, 1990). These observations suggest that the association of high molecular weight PAHs with larger sized particles may be more widespread than previously suggested.

Since the data suggest that the observed phenomena represent the additive effects of multiple particle pools, it would be expected that using the data on the amount of each of the size fractions resuspended during the experiments and the contaminant loadings associated with them, it would be possible to predict the loadings on the resuspended sediments. Using a simple model, based on the assumption of the conservation of particle mass, predicted versus observed loadings were graphed (Figure 14). The predictions for the overall PCB loadings on particles for the bedded sediments were very good, under predicting by only, on average, 25 and 23%, respectively, for the PR and RP sediments. For the dredge material the predicted values were, on average, only 25% of the observed loadings. The predicted PAH loadings were also very good, under predicted by 28% for RP and over predicted by 12% for the PR sediments. Underpredictions of 61% were calculated for PAHs associated with resuspended BRH sediments. We consider that the predicted and observed loadings for the PR and RP particles to be due primarily to the analytical variance in measurements. The cause of the low predictions for the resuspended BRH sediments is not known but would be explained by another pool of sorption substrate acting to make up the difference. This pool may be smaller sized particles, including colloids not collected in the process of sequestering the other size fractions. Depending on the relative size of this pool, these particles may have significant contaminant loadings.

Thus far it can be summarized that during resuspension three phenomena occur: (1) for all of the CBs and PAHs with $\log K_{ow} < 6$, particle loadings decrease with increasing shear and increasing TSS levels; (2) loadings of PAH with $\log K_{ow} > 6$ increase under the same conditions; and (3) it is clear that in the case of the BRH and RP sediments the entrainment of larger sized particles is directly proportional to shear; this is not the case for the PR sediments, which, although variable, showed relatively stable particle sizes throughout - perhaps tending toward smaller sizes with increased shear. In the cases of the CBs and PAHs with $\log K_{ow} < 6$, the fact that the loadings decrease with increasing shear show that two possible processes may be taking place: (1) dilution with larger sized particles containing diminished loadings and (2) desorption of these constituents at higher TSS levels. In the case of the PAHs with $\log K_{ow} > 6$, the larger sized particles entrained at greater shears are not as depleted as they were for PCBs and PAHs with $\log K_{ow} < 6$.

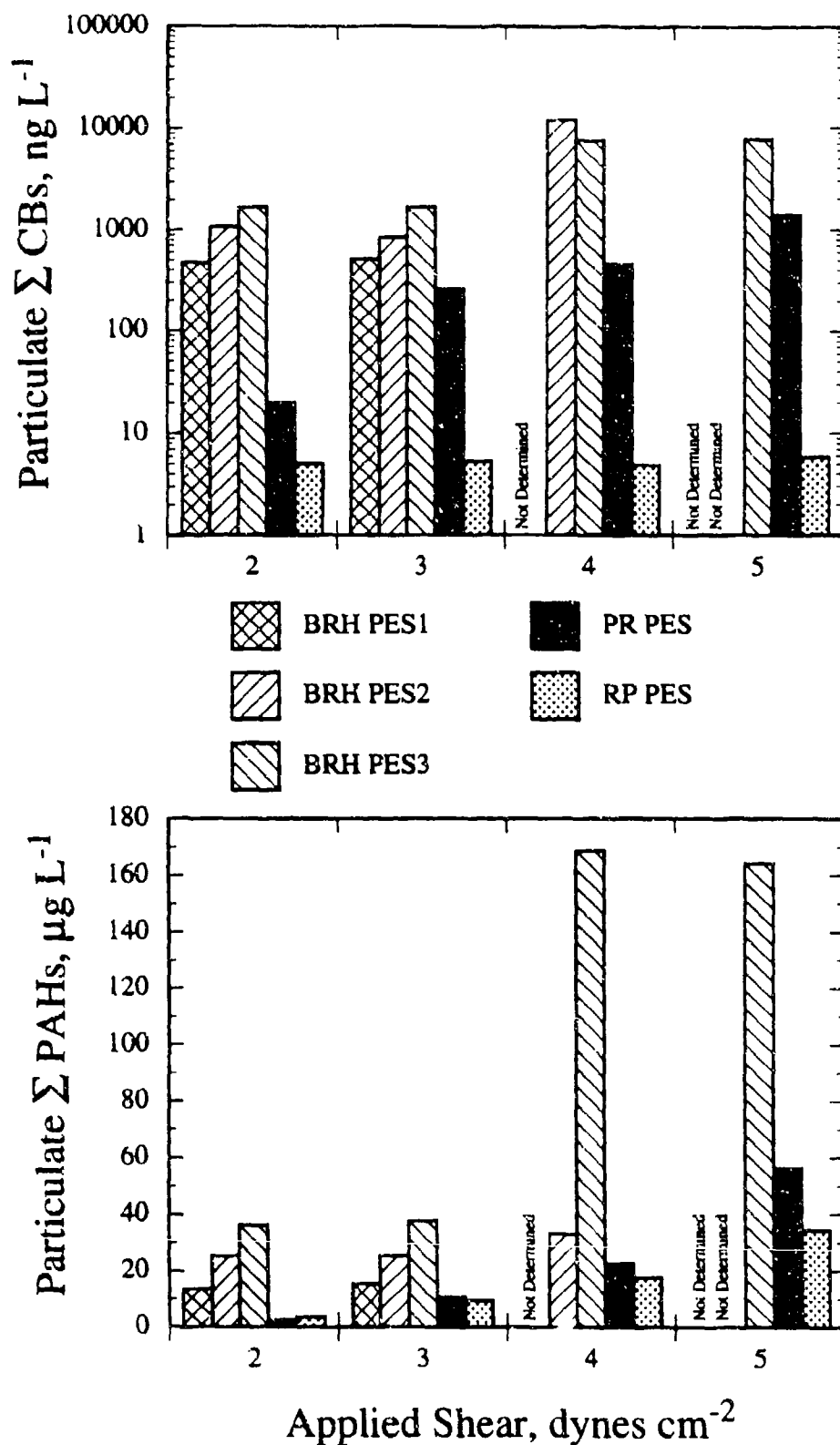


Figure 9. The concentration profiles for total calculated chlorobiphenyls and total calculated polycyclic aromatic hydrocarbons during the study.

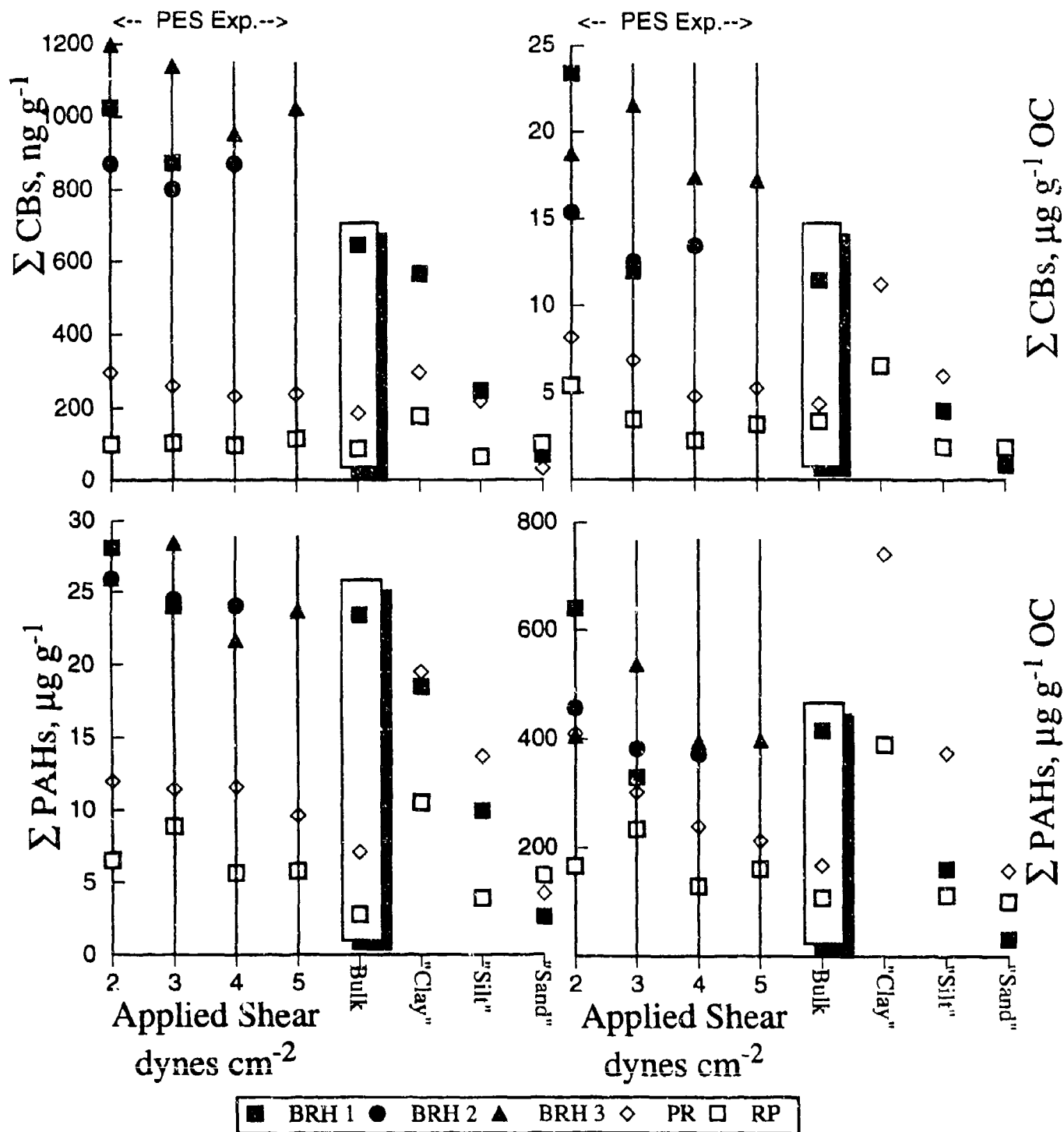


Figure 10. Mass loading of PCBs and PAHs on resuspended particles, normalized to dry weight and to the organic carbon content of the solids.

Concentration, ng g^{-1}

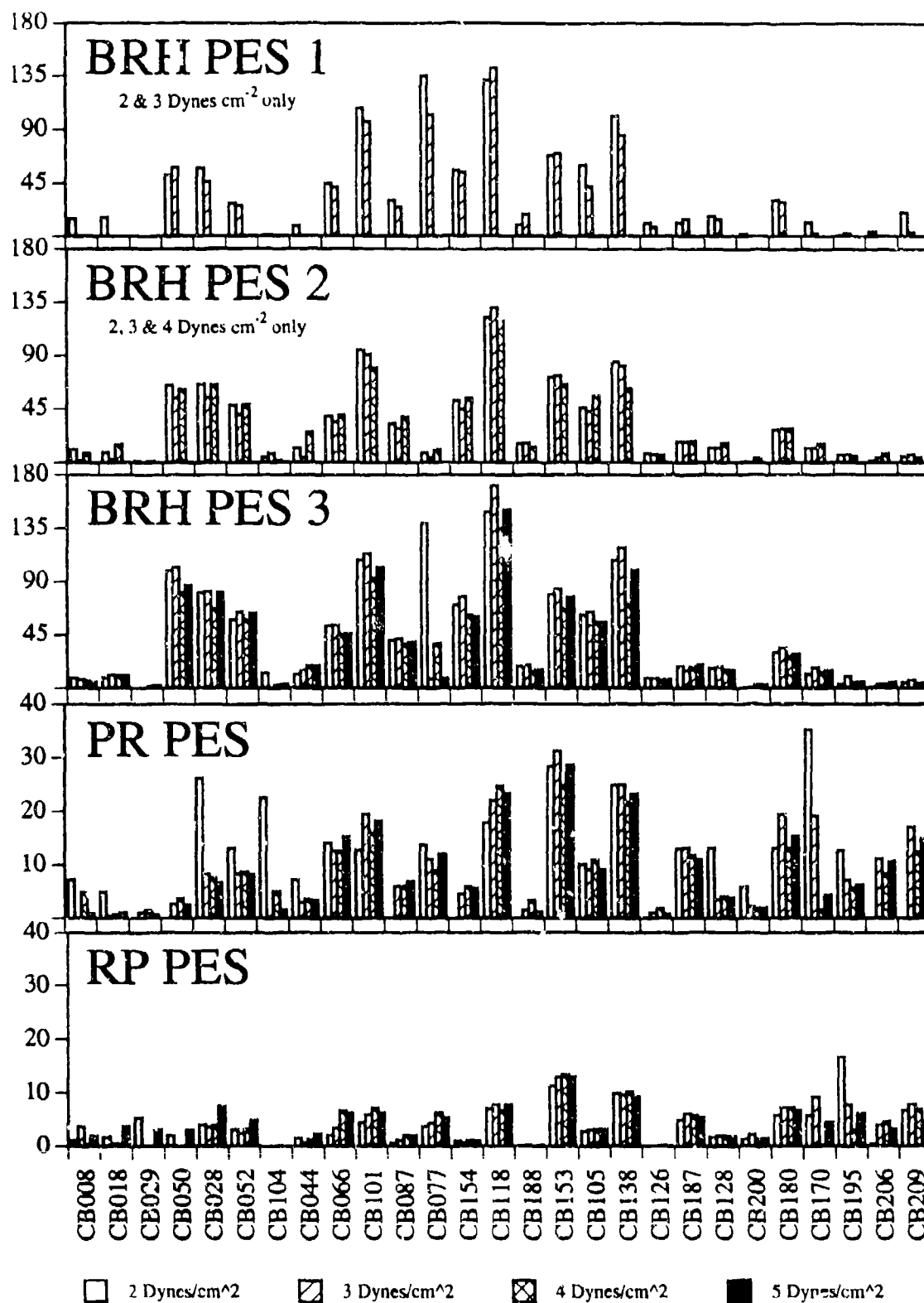


Figure 11. Chlorobiphenyl distribution in resuspended sediments obtained during the PES experiments with applied shears of 2 - 5 dynes cm^{-2} .

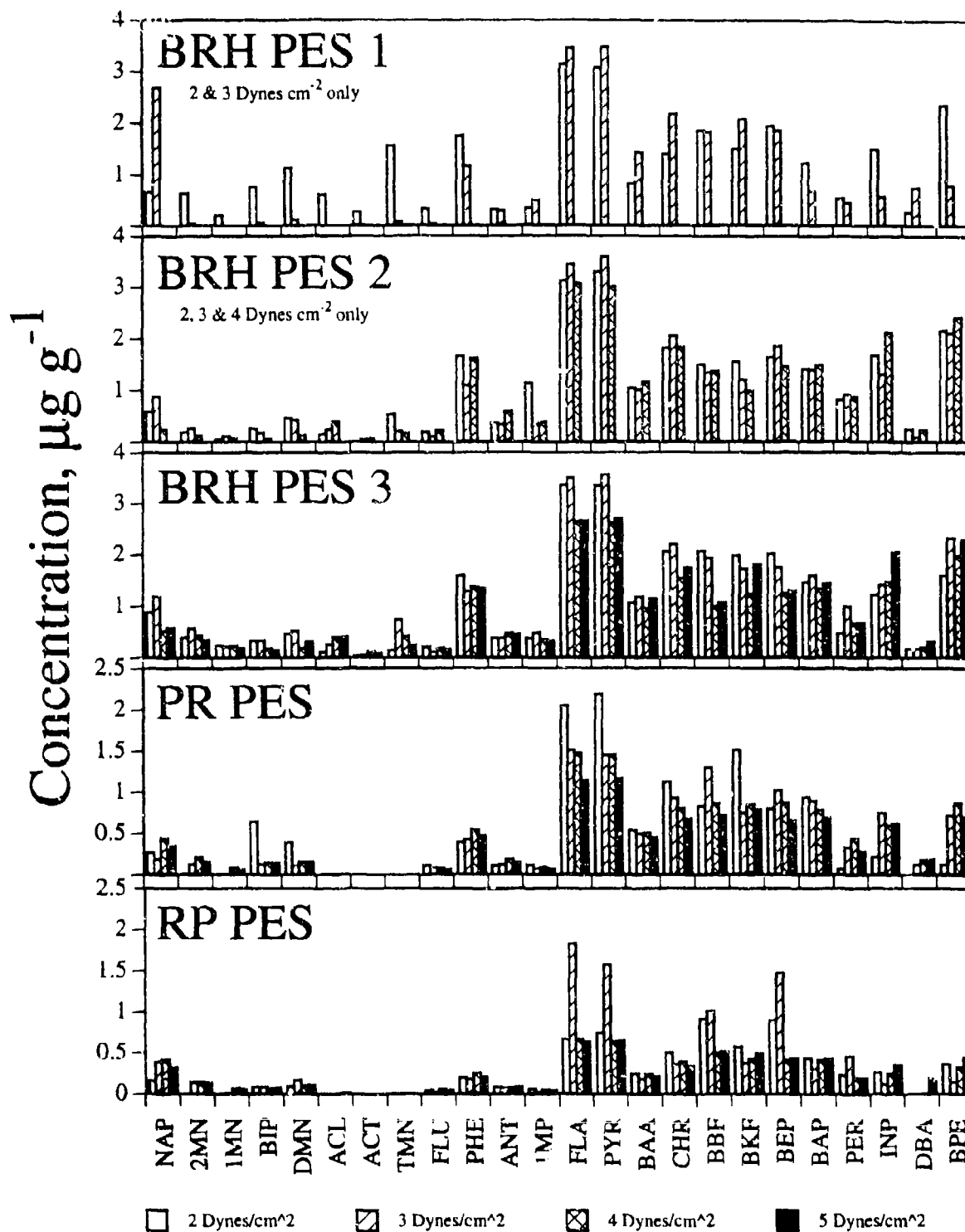


Figure 12. Polycyclic aromatic hydrocarbon distribution in resuspended sediments obtained during the PES experiments with applied shears of 2 - 5 dynes cm^{-2} .

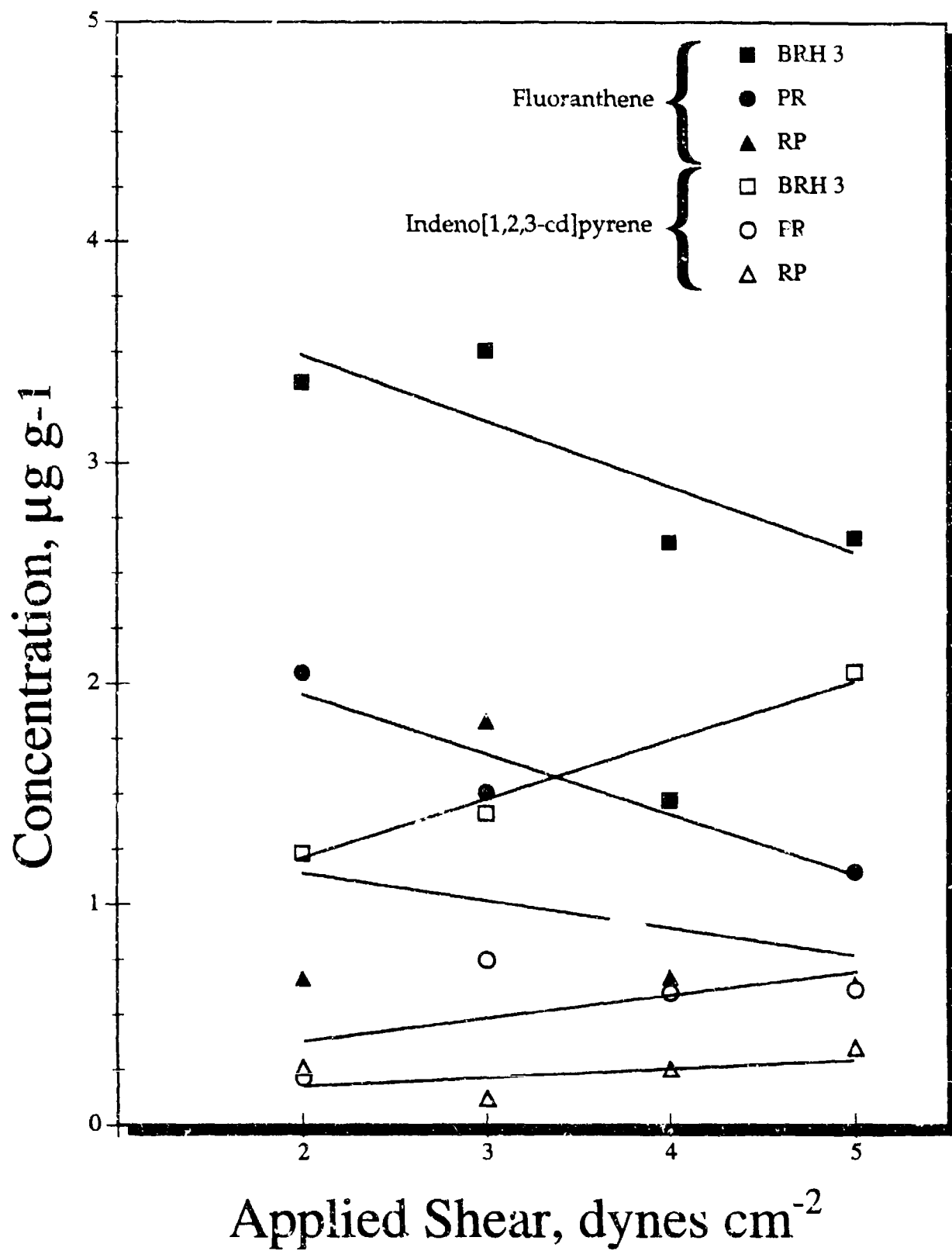


Figure 13. Example particle loadings of for two PAHs observed during resuspension events caused by applied shears of from 2 - 5 dynes cm^{-2} .

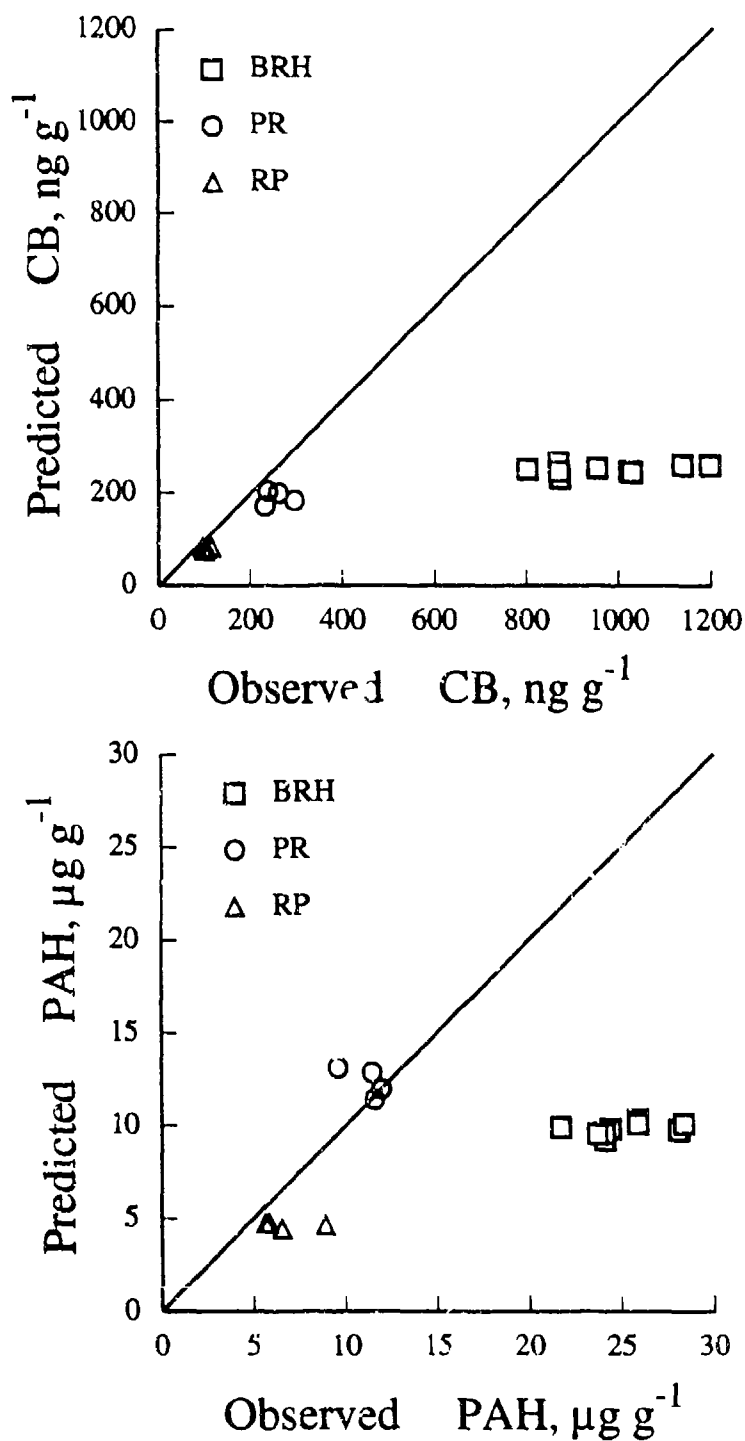


Figure 14. Predicted and observed CB and PAH loadings on resuspended sediments during the simulated resuspension events using the PES.

Solid-Liquid Phase Interactions

The distribution of HOCs between solid and liquid phases is commonly portrayed using a distribution coefficient (K_d) as

$$K_d = \frac{C_p \text{ (mass gTSS}^{-1}\text{)}}{C_d \text{ (mass L}^{-1}\text{)}} \quad (6)$$

where C_p is the concentration or loadings of the contaminant in the particle phase and C_d is the concentration in dissolved phase. The K_d is in widespread use in assessing phase associations for particle active constituents such as PCBs and PAHs in aqueous systems. In the present study, distribution coefficients were calculated for PAHs, since these constituents were in high enough concentrations in the dissolved phase for evaluation. The average log K_d value for the individual PAHs was 3.99 ± 0.99 (see Table 5 for summary). It is well accepted that the active agent for the partitioning of HOCs onto particles is organic carbon; although, the mineral nature of the sorbent is also important (Bush *et al.*, 1990). Thus, if this is the case during resuspension the K_d s for PAHs calculated from published octanol-water partition coefficients together with the fraction organic carbon measured in the samples should compare favorably with the observed coefficients. Table 6 gives the compilation of the predicted log K_d values for all of the PAHs measured. The average values (3.57 ± 1.0) compare favorably with the measured coefficients. However, a close evaluation of the data divulges that measured partitioning was skewed toward higher K_d s than would be predicted from organic carbon alone (Figure 15). An explanation of this would lie in the presence of other active surfaces in addition to the organic carbon; it is possible that sorption onto mineral surfaces may be an additional means to elevate the K_d values. Another possibility is that there are differences in the nature of the organic carbon that would influence its binding capacity for HOCs. Some have invoked diagenetically "new" organic matter as an active substrate for binding PCBs in the sediments during resuspension (Calvo *et al.*, 1991b); however, in the present study, changes in the C/N ratio, an indication of the freshness of the organic material, were minimal, ranging from 7.4 to 9.1 during the PES resuspension events.

The distribution coefficients evaluated on a total TSS, or on a textural proportion and organic carbon weight basis (e.g., $K_{cclay} = C_{cclay} \text{ (mass g}_{cclay}^{-1}\text{)} / C_d$) show characteristic decreased values in relation to increased suspended solids levels, particularly for the Providence River sediments (Figure 16); however, the decreases were less than what has been observed for other HOCs in the Great Lakes (Baker *et al.*, 1986). Under conditions with a surplus of active sorption sites, the thermodynamic partition coefficient should be independent of any bulk property of the system and would reflect the equilibrium relationship between the sorbed and non-sorbed chemical. However, an inverse relationship between the distribution coefficients and the solids concentration, known as the "solids effect," first discussed by Donald O'Connor and John Connolly in 1980 (O'Connor and Connolly, 1980), has been widely observed in the environment. Three mechanisms have been proposed to explain the observed phenomenon (Figure 17). Mechanism 1 originally postulated by Voice (Voice *et al.*, 1983) and later elaborated on by others (Gschwend and Wu, 1985) posits the presence of an additional phase corresponding to those particles that are non-settling, including colloidal materials. Thus HOCs are partitioned between the dissolved, settling particle, and non-settling particle phases (i.e., NSP). In most sorption determinations, it has been argued, that this third phase is not adequately taken into account and the HOCs that properly should be considered in the particle phase are ascribed to the dissolved phase. It is further hypothesized that the concentration of colloids is proportional to the concentration of the larger particulates; thus, the result is that at higher concentrations of TSS the partition coefficient decreases because the numerator becomes increasingly large. The other two mechanisms, invoked to explain the K_d behavior, are based upon particle interactions either through agglomeration or through desorption (Di Toro and Horzempa, 1985); each yielding a lowering of available substrate (or active sites) for sorption as TSS levels increase. The fact that the K_d s calculated in the present study do not change greatly with increased TSS levels may be due to a continuous addition of new substrate suitable to bind any dissolved contaminants available. In many cases this substrate is the larger sized particles entrained. Although these larger particles may not have the binding capacity of smaller particles,

due to their abundance, they are adequate to provide additional binding sites. Moreover, the assumption that the concentration of NSPs is proportional to the measured TSSs appears not to be the case during the resuspension events studied, since if NSPs were equally more abundant at higher shears the K_d values would decrease more than what was observed.

Table 5.

Log K_d values determined during PES resuspension events.

Compound	Abbr.	BRH PES1 Mean $\pm$ sd	BRH PES2 Mean $\pm$ sd	BRH PES3 Mean $\pm$ sd	PR Mean $\pm$ sd	RP Mean $\pm$ sd	Overall Mean $\pm$ sd
Naphthalene	NAP	2.86 $\pm$ 0.21	3.36 $\pm$ 0.17	2.40 $\pm$ 0.79	2.13 $\pm$ 0.24	1.96 $\pm$ 0.02	2.48 $\pm$ 0.58
2-methylnaphthalene	2MN	5.05 $\pm$ 0.92	3.40 $\pm$ 0.24	4.08 $\pm$ 0.81	5.27	5.33 $\pm$ 0.41	4.63 $\pm$ 0.90
1-methylnaphthalene	1MN	5.15 $\pm$ 0.72	3.19	3.69 $\pm$ 0.69	1.62		3.79 $\pm$ 1.28
1,1'-biphenyl	BIP		2.89	3.61	1.18 $\pm$ 0.31	0.96 $\pm$ 0.19	1.70 $\pm$ 1.01
2,6-dimethylnaphthalene	DMN	4.41 $\pm$ 0.63	3.11	3.71 $\pm$ 0.13	3.71 $\pm$ 0.05	3.70 $\pm$ 0.23	3.87 $\pm$ 0.47
Acenaphthylene	ACL	4.55	3.70	4.18	3.05 $\pm$ 0.26	2.26	3.47 $\pm$ 0.78
Acenaphthene[8Cl]	ACT	4.36	2.62	3.22 $\pm$ 0.50			3.24 $\pm$ 0.73
2,3,5-trimethylnaphthalene	TMN	4.60 $\pm$ 0.89	3.19 $\pm$ 0.69	3.45 $\pm$ 0.85			3.78 $\pm$ 0.90
9h-Fluorene	FLU	3.56 $\pm$ 0.67	3.64 $\pm$ 0.13	3.67 $\pm$ 0.24	3.65 $\pm$ 0.15	3.32 $\pm$ 0.41	3.60 $\pm$ 0.32
Phenanthrene	PHE	4.24 $\pm$ 0.90	4.01 $\pm$ 0.15	3.88 $\pm$ 0.24	4.83	6.19	4.26 $\pm$ 0.78
Anthracene	ANT	3.85 $\pm$ 0.27	4.05 $\pm$ 1.11	4.08 $\pm$ 0.53			3.76 $\pm$ 0.72
1-methylphenanthrene	IMP	3.80 $\pm$ 0.32	4.41 $\pm$ 0.66	4.52 $\pm$ 0.82		3.21	4.09 $\pm$ 0.66
Fluoranthene	FLA	5.27	4.26 $\pm$ 0.23	5.34 $\pm$ 1.42			4.86 $\pm$ 0.82
Pyrene	PYR	5.02	4.33 $\pm$ 0.26	4.72 $\pm$ 0.37			4.70 $\pm$ 0.41
Benz[a]anthracene	BAA	4.34 $\pm$ 0.91	4.86 $\pm$ 0.35	4.54	4.49 $\pm$ 0.08	4.17 $\pm$ 0.10	4.41 $\pm$ 0.49
Chrysene	CHR		4.84 $\pm$ 0.65	5.89			5.19 $\pm$ 0.76
Benzo[b]fluoranthene	BBF	4.14 $\pm$ 0.93	4.13	4.58 $\pm$ 0.67	4.35 $\pm$ 0.18	4.25 $\pm$ 0.22	4.30 $\pm$ 0.49
Benzo[k]fluoranthene	BKF		3.95 $\pm$ 0.35	5.50			4.46 $\pm$ 0.93
Benzo[e]pyrene	BEP	5.21 $\pm$ 0.39	3.85 $\pm$ 0.23	5.08 $\pm$ 0.01	5.17 $\pm$ 0.16	5.18 $\pm$ 0.37	5.02 $\pm$ 0.50
Benzo[a]pyrene	BAP	4.55 $\pm$ 0.63	4.65 $\pm$ 0.97	5.19 $\pm$ 0.54	4.90 $\pm$ 0.09	4.67 $\pm$ 0.13	4.79 $\pm$ 0.41
Perylene	PER		4.65 $\pm$ 0.15	4.93			4.74 $\pm$ 0.19
Indeno[1,2,3-cd]pyrene	INP	4.27 $\pm$ 0.30	4.80	4.18	4.09 $\pm$ 0.09	3.55 $\pm$ 0.23	4.05 $\pm$ 0.39
Dibenz[a,h]anthracene	DBA	4.02 $\pm$ 0.24	3.27 $\pm$ 0.26	3.06 $\pm$ 0.51	3.58 $\pm$ 0.09	2.27	3.55 $\pm$ 0.67
Benzo[ghi]perylene	BPE	4.54 $\pm$ 0.34	4.85 $\pm$ 0.17	4.41	4.25 $\pm$ 0.10	3.74 $\pm$ 0.26	4.22 $\pm$ 0.46

Table 6.

Predicted distribution coefficients (from Koc and foc) for samples collected during resuspension events.

	NAP	2MN	1MN	BIP	DMN	ACL	ACT	TMN	FLU	PHE	ANT	IMP	FLA	PYR	BAA	CHR	BRF	CF	BEP	BAP	PER	DNP	DBA	BPE
BRH PES1 Log K _{oc}																								
2 d/cm ²	1.75	2.17	2.02	2.48	2.75	2.28	2.66	3.44	2.95	2.95	3.03	3.58	3.68	3.50	3.97	3.78	4.36	4.37	4.24	4.88	4.89	5.14	4.50	4.87
3 d/cm ²	1.97	2.39	2.24	2.70	2.97	2.50	2.88	3.66	3.21	3.17	3.25	3.80	3.90	3.72	4.19	4.00	4.58	4.59	4.46	5.10	5.11	5.36	4.92	5.09
BRH PES2 Log K _{oc}																								
2 d/cm ²	1.87	2.29	2.14	2.60	2.87	2.40	2.78	3.56	3.11	3.07	3.15	3.70	3.80	3.62	4.09	3.90	4.48	4.49	4.36	5.00	5.01	5.26	4.72	4.99
3 d/cm ²	1.92	2.34	2.19	2.65	2.92	2.45	2.83	3.61	3.16	3.12	3.20	3.75	3.85	3.67	4.14	3.95	4.53	4.54	4.41	5.05	5.06	5.31	4.77	5.04
4 d/cm ²	1.92	2.34	2.19	2.65	2.92	2.45	2.83	3.61	3.16	3.12	3.20	3.75	3.85	3.67	4.14	3.95	4.53	4.54	4.41	5.05	5.06	5.31	4.77	5.04
BRH PES3 Log K _{oc}																								
2 d/cm ²	1.92	2.34	2.19	2.65	2.92	2.45	2.83	3.61	3.16	3.12	3.20	3.75	3.85	3.67	4.14	3.95	4.53	4.54	4.41	5.05	5.06	5.31	4.77	5.04
3 d/cm ²	1.83	2.25	2.10	2.56	2.83	2.36	2.74	3.52	3.07	3.03	3.11	3.66	3.76	3.58	4.05	3.86	4.44	4.45	4.32	4.96	4.97	5.22	4.68	4.95
4 d/cm ²	1.85	2.27	2.12	2.58	2.85	2.38	2.76	3.54	3.09	3.05	3.13	3.68	3.78	3.60	4.07	3.88	4.46	4.47	4.34	4.98	4.99	5.24	4.70	4.97
5 d/cm ²	1.89	2.31	2.16	2.62	2.89	2.42	2.80	3.58	3.13	3.09	3.17	3.72	3.82	3.64	4.11	3.92	4.50	4.51	4.38	5.02	5.03	5.28	4.74	5.01
PR Log K _{oc}																								
2 d/cm ²	1.67	2.09	1.94	2.40	2.67	2.20	2.58	3.36	2.91	2.87	2.95	3.50	3.60	3.42	3.89	3.70	4.28	4.29	4.16	4.80	4.81	5.06	4.52	4.79
3 d/cm ²	1.69	2.11	1.96	2.42	2.69	2.22	2.60	3.38	2.93	2.89	2.97	3.52	3.62	3.44	3.91	3.72	4.30	4.31	4.18	4.82	4.83	5.08	4.54	4.81
4 d/cm ²	1.80	2.22	2.07	2.53	2.80	2.33	2.71	3.49	3.04	3.00	3.08	3.63	3.73	3.55	4.02	3.83	4.41	4.42	4.29	4.93	4.94	5.19	4.65	4.92
5 d/cm ²	1.76	2.18	2.03	2.49	2.76	2.29	2.67	3.45	3.00	2.96	3.04	3.59	3.69	3.51	3.98	3.79	4.37	4.38	4.25	4.89	4.90	5.15	4.61	4.88
RP Log K _{oc}																								
2 d/cm ²	1.70	2.12	1.97	2.43	2.70	2.23	2.61	3.39	2.94	2.90	2.98	3.53	3.63	3.45	3.92	3.73	4.31	4.32	4.19	4.83	4.84	5.09	4.55	4.82
3 d/cm ²	1.69	2.11	1.96	2.42	2.69	2.22	2.60	3.38	2.93	2.89	2.97	3.52	3.62	3.44	3.91	3.72	4.30	4.31	4.18	4.82	4.83	5.08	4.54	4.81
4 d/cm ²	1.75	2.17	2.02	2.48	2.75	2.28	2.66	3.44	2.99	2.95	3.03	3.58	3.68	3.50	3.97	3.78	4.36	4.37	4.24	4.88	4.89	5.14	4.60	4.87
5 d/cm ²	1.67	2.09	1.94	2.40	2.67	2.20	2.58	3.36	2.91	2.87	2.95	3.50	3.60	3.42	3.89	3.70	4.28	4.29	4.16	4.80	4.81	5.06	4.52	4.79

*predicted from lit Log K_{oc} and foc in samples

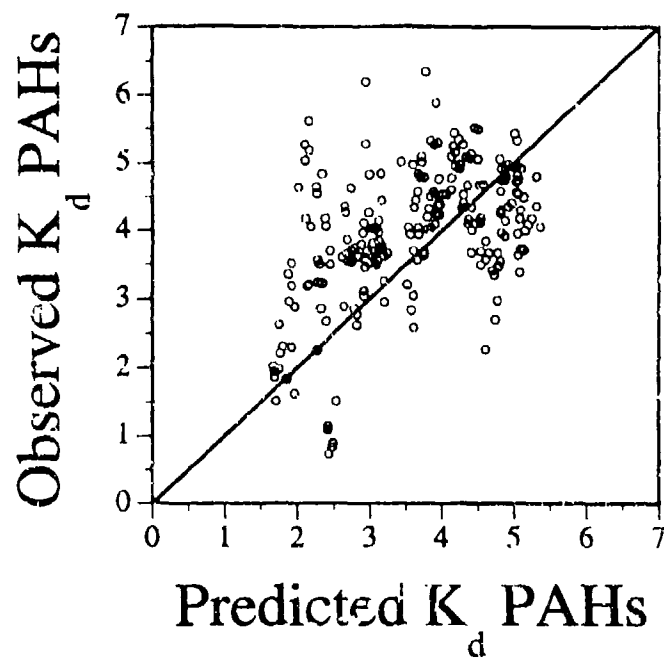


Figure 15. Predicted and observed K_d values for PAHs during PES resuspension experiments.

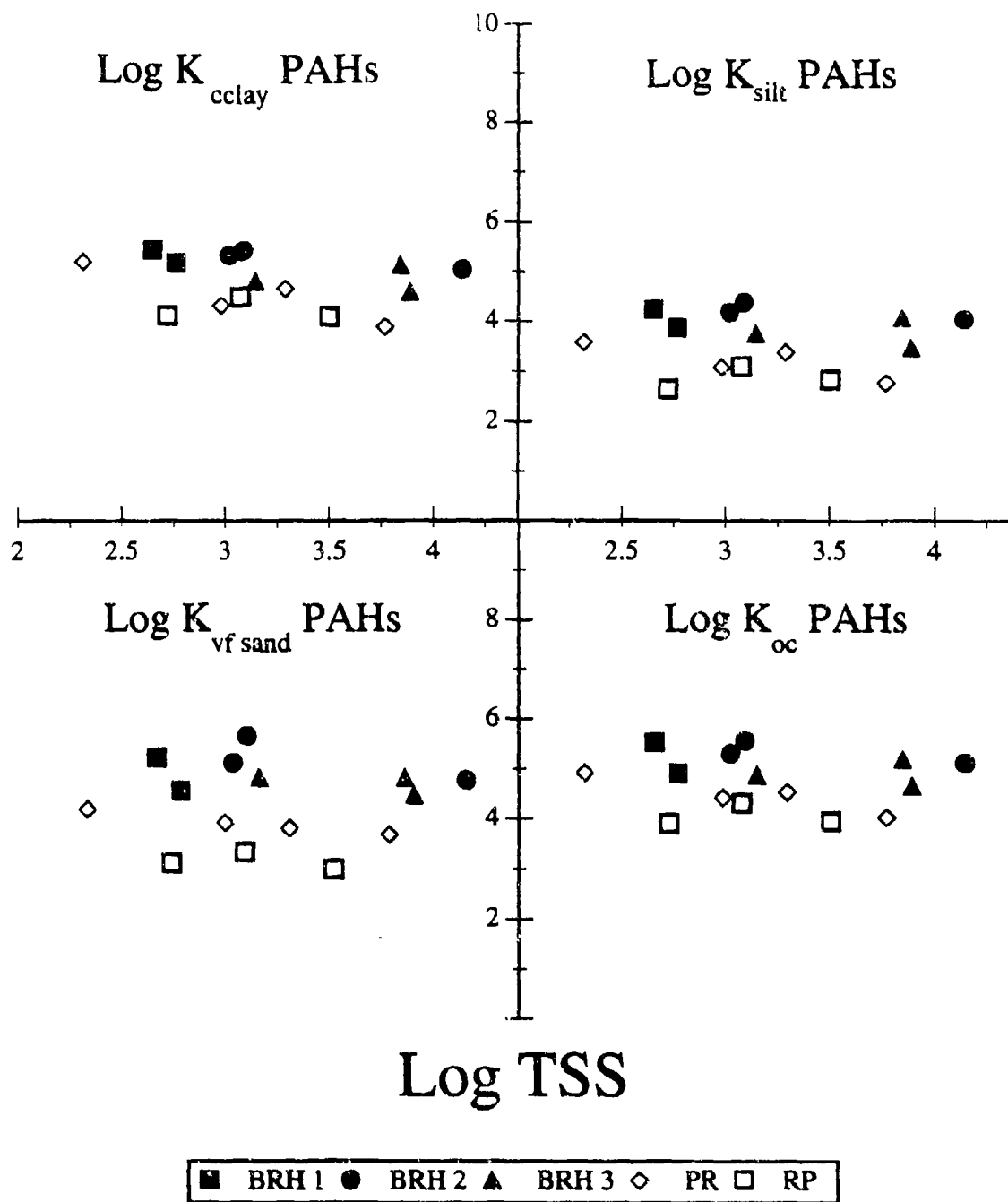
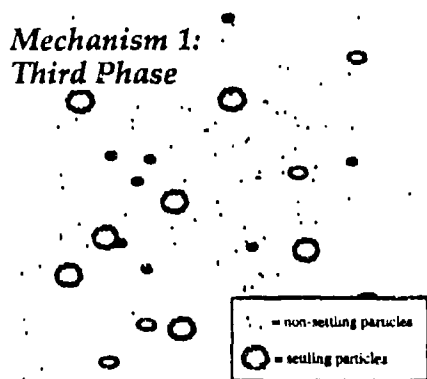
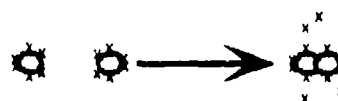


Figure 16. Log K_{ds} normalized to the proportion of each of the particle sizes and organic carbon content versus log TSS during resuspension.

**Mechanism 1:
Third Phase**



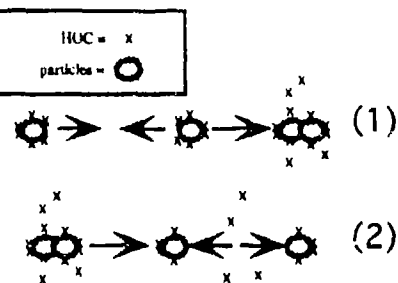
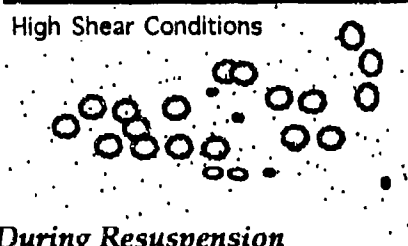
**Mechanism 2:
Particle-Particle Interactions**



Low Shear Conditions

High Shear Conditions

During Resuspension



**Mechanism 3:
Particle Collisions**

Figure 17. Stylized depictions of the hypotheses describing the relationship between K_d and particle concentrations.

CONCLUSIONS

The interaction of in-place contaminated sediments with the overlying water column and indigenous biota is a relatively new area of study. The paradigm, that previously classified sediments as sinks for contaminants, is now known to be an oversimplification. Studies aimed at evaluating the chemistry and dynamics of hydrophobic organic contaminants during resuspension are important to understand the role that in-place sediments have in the transport and fate of contaminants at the sediment-water interface. The present study was designed to investigate the resuspension phenomenon in the laboratory using a particle entrainment simulator. In these experiments, sediments, having a variety of contaminant, and textural characteristics, were artificially resuspended by applying turbulence equivalent to surface shears from 2 to 5 dynes cm^{-2} . The objectives were to evaluate contaminant chemistry and dynamics as a function of resuspension magnitude. Important insight was gained from these laboratory studies that would not have been possible from field studies since all of the important variables would have been difficult to control or measure. Several conclusions on the chemistry and dynamics of HOCs during resuspension were obtained:

- (1) The degree of entrainment of particles was related to the experimental shear applied and the characteristics of the bulk sediments. It was found that the bedded sediments had lower entrainment rates than the dredge materials due to the presence of greater amounts of larger grained sized particles.
- (2) The sizes of the particles entrained from the bedded sediments changed with increasing resuspension magnitude and were likely due to non uniform characteristics of sediment with depth in the zone of resuspension (up to 1 mm). In the case of the more highly contaminated Providence River sediments the mean particle size increased with applied shear; whereas for the less contaminated Rocky Point sediment the particle sizes decreased over the same applied shear range. Moreover both of these sediment types exhibited particle size distributions during resuspension that were skewed toward smaller particles than those of the bulk sediments.
- (3) The particle size distribution for the dredged material was relatively constant under widely different resuspension conditions and was similar to the bulk sediment characteristics.
- (4) On a mass loading and an organic carbon loading weight basis, the entrained particulate material was modestly depleted in PCBs and PAHs with $\log K_{ow} < 6$ as the applied shear and the amount of overall material were resuspended into the overlying water column. Alternately, higher molecular weight PAHs ($\log K_{ow} > 6$) showed enriched loadings under the same conditions. On a volume weighted basis the amount of organic contaminants increased in the water column as resuspension energy increased.
- (5) The distribution of PAHs between the dissolved and particulate phases (K_{ds}) showed relatively minor decreases with increased applied shear and TSS levels during the resuspension events.

Two processes are the likely causes of the contaminant behavior during resuspension:

- (a) Dilution due to the entrainment of larger sized particulates depleted in PCBs and lower molecular weight PAHs ($\log K_{ow} < 6$). This particle pool, however, was relatively enriched in high molecular weight PAHs ($\log K_{ow} > 6$). In addition, this mechanism would explain the behavior of K_{ds} during resuspension.
- (b) Agglomeration or particle collisions causing loss of binding sites or desorption of PCBs and low molecular weight PAHs from resuspended particulates as applied shear and TSS levels increased. High molecular PAHs were not as affected by this phenomenon possibly due to

stronger binding on particles. Mechanism b however, would cause relatively large decreases in K_{ds} during resuspension; this was not observed.

Acknowledgments—

We wish to thank the many scientists and technicians, ship captains and advisors that helped make this study a success. In particular, we are very thankful for the help that Dr. Wayne Davis and Mr. Darryl Keith of EPA's Environmental Research Laboratory - Narragansett (ERLN) gave us in all the biological, chemical, and geological aspects of the study. Ms. Karen Salomon helped in the early stages of the study on QA/QC; she conducted the many resuspension experiments in concert with Paul Ferri at the ERLN. Ms. Meredith Slater was an invaluable help in all analytical aspects of the study. We acknowledge Captain Mark Gustafson and Mr. Jim Allan of URI's R/V *Laurie Lee*, for their help in obtaining sediment cores and clam samples. We thank Mr. David Butler and his staff at URI's equipment development lab for overseeing the fabrication of the all glass PES sediment plug holders.

REFERENCES

- Baker, J. E., P. D. Capel and S. J. Eisenreich. 1986. Influence of colloids on sediment-water partition coefficients of polychlorobiphenyl congeners in natural waters. *Envir. Sci. Tech.* **20** 1136-1143.
- Baker, J. E., S. J. Eisenreich, T. J. C. Johnson and B. M. Halfman. 1985. Chlorinated hydrocarbon cycling in the benthic nepheloid layer of Lake Superior. *Environ. Sci. Technol.* **19** 854-861.
- Bedford, K. W. *In situ measurement of entrainment, resuspension, and related processes at the sediment-water interface; Transport and Transformation of Contaminants Near the Sediment-Water Interface*. J. V. DePinto, W. Lick and J. F. Paul, Ed., Lewis Publishers: Boca Raton, 1994, 59-93.
- Bender, K. and W. R. Davis. 1984. The effect of feeding by *Yoldia limatula* on bioturbation. *Ophelia*. **23**
- Bidleman, T. F. 1988. Atmospheric processes. *Environ. Sci. Technol.* **22** 361-367.
- Boehm, P. D. 1983. Coupling of organic pollutants between the estuary and Continental Shelf and the sediments and water column in the New York Bight region. *Can. J. Fish. Aquat. Sci.* **40** 262-276.
- Bokuniewicz, H., L. McTiernan and W. Davis. 1991. Measurement of sediment resuspension rates in Long Island Sound. *Geo-Mar. Let.* **11** 159-161.
- Broman, D., C. Naf, M. Wik and I. Renberg. 1990. The importance of spheroidal carbonaceous particles (SCPs) for the distribution of particulate polycyclic aromatic hydrocarbons (PAHs) in an estuarine-like urban coastal water area. *Chemosphere*. **21** 69-77.
- Bush, B., L. Shane and L. Wood. 1990. Precipitation of 78 PCB congeners from aqueous solution by clay. *Bull. Environ. Contam. Toxicol.* **45** 125-132.
- Calvo, C., R. Donazzolo, F. Guidi and A. A. Orio. 1991a. Heavy metal pollution studies by resuspension experiments in Venice Lagoon. *Wat. Res.* **25** (10): 1295-1302.
- Calvo, C., M. Grasso and G. Gardenchi. 1991b. Organic carbon and nitrogen in sediments and in resuspended sediments of Venice Lagoon: Relationships with PCB contamination. *Mar. Poll. Bull.* **22** (11): 543-547.
- Davis, W. R. 1993. The role of bioturbation in sediment resuspension and its interaction with physical shearing. *J. Exp. Mar. Biol. Ecol.* **171** 187-200.
- Davis, W. R. and J. C. Means. 1986. "A developing model of benthic-water contaminant transport in bioturbated sediment" 21st European Marine Biology Symposium, Gdansk, Poland.
- Di Toro, D. M. and L. M. Horzempa *Reversible and resistant component model of hexachlorobiphenyl adsorption-desorption resuspension and dilution*; D. Mackay, S. Paterson, S. J. Eisenreich and M. S. Simmons, Ed., Ann Arbor Science: Ann Arbor, MI, 1985; 89-113.

- Fukuda, M. K. and W. Lick. 1980. The entrainment of cohesive sediments in freshwater. *J. Geophys. Res.* **85** (C5): 2813-2824.
- Grant, W. D., L. F. Boyer and L. P. Sanford. 1982. The effects of bioturbation on the initiation of motion of intertidal sands. *J. Mar. Res.* **40** 659-677.
- Gschwend, P. M. and S. Wu. 1985. On the constancy of sediment-water partition coefficients of hydrophobic organic pollutants. *Environ. Sci. Technol.* **19** 90-96.
- Hermesen, W., I. Sims and M. Crane. 1994. The bioavailability and toxicity to *Mytilus edulis* L. of two organochlorine pesticides adsorbed to suspended solids. *Mar. Environ. Res.* **38** 61-69.
- Keith, D. J., W. R. Davis and J. F. Paul. 1991. Sediment erodibility in Narragansett Bay, Rhode Island; a method of predicting sediment dynamics. Final Report to EPA Region 1. **ERLN No. 1112**. Environmental Research Laboratory Narragansett (ERLN).
- Latimer, J. S., L. A. LeBlanc, J. T. Ellis and J. G. Quinn *The distribution of PCBs in the surface sediments of Narragansett Bay, RI; Organic Substances and Sediments in Water: Volume 2, Processes and Analytical*. R. A. Baker, Ed., Lewis Pub. Inc.: Chelsea, MI, 1991, 221-248.
- Latimer, J. S., L. A. LeBlanc, J. T. Ellis, J. Zheng and J. G. Quinn. 1990. The sources of PCBs to the Narragansett Bay estuary. *Sci. Tot. Environ.* **97/98** 155-167.
- Latimer, J. S. and J. G. Quinn. In prep. Historical trends and current inputs of hydrophobic organic contaminants in an urban estuary: the sedimentary record.
- Lavelle, J. W. and W. R. Davis. 1987. Measurements of benthic sediment erodibility in Puget Sound, WA. NOAA Technical Memorandum. **ERL PMEL-72**. National Oceanic and Atmospheric Administration.
- LeBlanc, L. A., J. S. Latimer, J. T. Ellis and J. G. Quinn. 1992. The geochemistry of coprostanol in waters and surface sediments of Narragansett Bay. *Estuar. Coast. and Shelf Sci.* **34** (5): 439-458.
- Lick, W. *The flocculation, deposition, and resuspension of fine-grained sediments; Transport and transformation of contaminants near the sediment-water interface*. J. V. DePinto, W. Lick and J. F. Paul, Ed., Lewis: Boca Raton, 1994, 35-58.
- Lick, W. and S. W. Kang. 1987. Entrainment of sediments and dredged materials in shallow lake waters. *J. Great Lakes Res.* **13** (4): 619-627.
- Mackay, D., W. Y. Shiu and K. C. Ma *Illustrated Handbook of Physical - Chemical Properties and Environmental Fate for Organic Chemicals Vol II Polycyclic Aromatic Hydrocarbons, Polychlorinated Dioxins and Dibenzofurans*; Ed., Lewis Publishers: Boca Raton, 1992; 597.
- McLean, R. I., J. K. Summers, C. R. Olsen, S. L. Domotor, I. L. Larsen and H. Wilson. 1991. Sediment accumulation rates in Conowingo Reservoir as determined by man-made and natural radionuclides. *Estuaries*. **14** 148-156.
- Moran, S. B. and R. M. Moore. 1991. The potential source of dissolved aluminum from resuspended sediments to the North Atlantic Deep Water. *Geochim. Cosmochim. Acta.* **55** 2745-2751.

- Morse, J. W. *Release of toxic metals via oxidation of authogenic pyrite in resuspended sediments; Environmental Geochemistry of Sulfide Oxidation*. C. N. Alpers and D. W. Blowes, Ed., ACS: 1994, 289-297.
- Mueller, C., W. R. Munns, D. J. Cobb, E. A. Petrocelli, G. G. Pesch, W. G. Nelson, D. M. Burdick, F. T. Short and R. K. Johnston. 1992. Standard Operating Procedures and Field Methods Used for Conducting Ecological Risk Assessment Case Studies. Technical Document 2296. ERL-N No. 1263. Environmental Research Laboratory-Narragansett.
- Nixon, S. W., C. D. Hunt and B. L. Nowicki *The retention of nutrients (C,N,P), heavy metals (Mn, Cd, Pb, Cu), and petroleum hydrocarbons in Narragansett Bay*; Ed., 1986; 99-122.
- O'Connor, D. J. and J. P. Connolly. 1980. The effect of concentration of adsorbing solids on the partition coefficient. *Water Res.* **14** 1517-1523.
- Oviatt, C. A. and S. W. Nixon. 1975. Sediment resuspension and deposition in Narragansett Bay. **3** 201-217.
- Partheniades, E. 1965. Erosion and deposition of cohesive soils. *Jour. Hydraulics Div. Proc. Am. Soc. Civ. Eng.* **HY1** 105-139.
- Pruell, R. J. and J. G. Quinn. 1985. Geochemistry of organic contaminants in Narragansett Bay sediments. *Est. Coast. Shelf Sci.* **21** 295-312.
- Pruell, R. J., J. G. Quinn, J. L. Lake and W. R. Davis *Availability of PCBs and PAHs to Mytilus edulis from artificially resuspended sediments.; Oceanic Processes in Marine Pollution*. J. M. Capuzzo and D. R. Kester, Ed., R. E. Krieger Publ. Co.: Malabar, FL, 1987, 265.
- Quinn, J. G., J. S. Latimer, L. A. LeBlanc and J. T. Ellis. 1992. Assessment of organic contaminants in Narragansett Bay sediments and hard shell clams. Report to Narragansett Bay Project, Providence, RI. **NBP 92-111**. Graduate School of Oceanography, University of Rhode Island, Narragansett, RI.
- Raccanelli, S., B. Pavoni, A. Marcomini and A. A. Orio. 1989. Polychlorinated biphenyl pollution caused by resuspension of surface sediments in the lagoon of Venice. *Sci. Tot. Environ.* **79** 111-123.
- Rogerson, P. R., S. C. Schimmel and G. Hoffman. 1985. Chemical and biological characterization of Black Rock Harbor dredge material. Final Report. **Tech. Rep. D-85-9**. USEPA.
- Sanford, L. P. 1994. Wind-forced resuspension of upper Chesapeake Bay muds. *Estuaries*. **17** (1B): 149-165.
- Schults, D. W., S. P. Ferraro, G. R. Ditsworth and K. A. Sercu. 1987. Selected chemical contaminants in surface sediments of Commencement Bay and the Tacoma Waterways, Washington, USA. *Mar. Envir. Res.* **22** 271-295.
- Tsai, C. H. and W. Lick. 1986. A portable device for measuring sediment resuspension. *J. Great Lakes Res.* **12** (4): 314 - 321.
- Voice, T. C., C. P. Rice and W. J. Weber. 1983. Effect of solids concentration on the sorptive partitioning of hydrophobic pollutants in aquatic systems. *Environ. Sci. Technol.* **17** 513-518.

Wainright, S. C. 1987. Stimulation of heterotrophic microplankton production by resuspended marine sediments. *Science*. **238** 1710-1712.

Wainright, S. C. 1990. Sediment-to-water fluxes of particulate material and microbes by resuspension and their contribution to the planktonic food web. *Mar. Ecol. Prog. Ser.* **62** 271-281.

APPENDIX 1. BLACK ROCK HARBOR PES 1 DATA (BRH PES 1)

BRH PES 1	Dry wt, cm ²	Time, min	Filter#	Amt filtered, g	Vol filtered, ml	TSS, mg/L	CB008, mg/g
2/27/92-0.0	0	0	3	0.0019	50.0	38.0	111.56
3/10/92-0.0	0	0	22	0.0027	100.0	27.0	0.00
Average	0			0.002	75.000	32.506	55.778
St. Dev.				0.001	35.355	7.778	78.882
R.S.D. %				25	47	24	141
Min				0.002	50.000	27.000	0.000
Max				0.003	100.000	38.000	111.555
"				2	2	2	2
3/2/92-2.1-A	2	25	6	0.0216	60.0	360.0	13.22
3/2/92-2.1-B	2	25	7	0.0182	40.0	455.0	40.86
Average	2			0.020	50.000	407.500	27.039
St. Dev.				0.002	14.142	67.175	19.545
R.S.D. %				12	28	16	72
Min				0.018	40.000	360.000	13.218
Max				0.022	60.000	455.000	40.860
"				2	2	2	2
3/2/92-2.2-A	2	50	8	0.0191	50.0	382.0	1.36
3/2/92-2.2-B	2	50	9	0.0179	50.0	358.0	4.45
Average	2			0.019	50.000	370.000	2.905
St. Dev.				0.001	0.000	16.971	2.183
R.S.D. %				5	0	5	75
Min				0.018	50.000	358.000	1.361
Max				0.019	50.000	382.000	4.448
"				2	2	2	2
3/4/92-2.1-A	2	25	19	0.0275	50.0	550.0	22.92
3/4/92-2.1-B	2	25	18	0.0287	50.0	574.0	5.28
Average	2			0.028	50.000	562.000	14.059
St. Dev.				0.001	0.000	16.971	12.471
R.S.D. %				3	0	3	88
Min				0.028	50.000	550.000	5.281
Max				0.029	50.000	574.000	22.918
"				2	2	2	2
Average	2			0.022	50.000	446.500	14.681
St. Dev.				0.005	6.325	96.453	15.005
R.S.D. %				22	13	22	102
Min				0.018	40.000	358.000	1.361
Max				0.029	60.000	574.000	40.860
"				6	6	6	6
3/10/92-3.1-A	3	25	23	0.0300	50.0	600.0	0.00
3/10/92-3.1-B	3	25	24	0.0281	50.0	562.0	0.36
Average	3			0.029	50.000	581.000	0.181
St. Dev.				0.001	0.000	16.870	0.256
R.S.D. %				5	0	5	141
Min				0.028	50.000	562.000	0.000
Max				0.030	50.000	600.000	0.363
"				2	2	2	2
3/10/92-3.2-A	3	50	25	0.0304	50.0	608.0	0.00
3/10/92-3.2-B	3	50	26	0.0278	50.0	556.0	0.00
Average	3			0.029	50.000	582.000	0.000
St. Dev.				0.002	0.000	36.770	0.000
R.S.D. %				6	0	6	#DIV/0!
Min				0.028	50.000	556.000	0.000
Max				0.030	50.000	608.000	0.000
"				2	2	2	2
Average	3			0.0291	50.0000	581.5000	0.0907
St. Dev.				0.0013	0.0000	26.2996	0.1813
R.S.D. %				5	0	5	200
Min				0.0278	50.0000	556.0000	0.0000
Max				0.0304	50.0000	608.0000	0.3627
"				4	4	4	4

BRH PES 1	Dynes/cm ²	CB018, ng/g	CB029, ng/g	CB050, ng/g	CB028, ng/g	CB052, ng/g	CB104, ng/g
2/27/92-0,0	0	0.00	0.00	84.76	0.00	0.00	0.00
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	0.000	0.000	42.382	0.000	0.000	0.000
St. Dev.		0.000	0.000	59.908	0.000	0.000	0.000
R.S.D. %		#DIV/0!	#DIV/0!	141	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		0.000	0.000	84.765	0.000	0.000	0.000
n		2	2	2	2	2	2
3/2/92-2,1-A	2	16.02	0.00	51.03	42.47	24.93	0.00
3/2/92-2,1-B	2	64.42	0.00	21.73	118.50	15.83	0.00
Average	2	40.220	0.000	36.378	80.489	20.382	0.000
St. Dev.		34.222	0.000	20.720	53.761	6.433	0.000
R.S.D. %		85	#DIV/0!	57	67	32	#DIV/0!
Min		16.022	0.000	21.727	42.474	15.833	0.000
Max		64.418	0.000	51.029	118.504	24.931	0.000
n		2	2	2	2	2	2
3/2/92-2,2-A	2	0.00	0.00	85.11	55.95	21.39	0.00
3/2/92-2,2-B	2	0.00	0.00	52.58	41.91	17.44	0.00
Average	2	0.000	0.000	68.844	48.930	19.412	0.000
St. Dev.		0.000	0.000	22.998	9.923	2.793	0.000
R.S.D. %		#DIV/0!	#DIV/0!	33	20	14	#DIV/0!
Min		0.000	0.000	52.582	41.913	17.438	0.000
Max		0.000	0.000	85.106	55.947	21.387	0.000
n		2	2	2	2	2	2
3/4/92-2,1-A	2	13.99	0.00	36.50	39.27	69.89	0.00
3/4/92-2,1-B	2	1.10	0.00	66.25	46.85	16.59	1.78
Average	2	7.546	0.000	51.374	43.057	43.239	0.892
St. Dev.		9.119	0.000	21.042	5.361	37.688	1.261
R.S.D. %		121	#DIV/0!	41	12	87	141
Min		1.098	0.000	36.495	39.266	16.590	0.000
Max		13.994	0.000	66.253	46.847	69.888	1.783
n		2	2	2	2	2	2
Average	2	15.922	0.000	52.199	57.492	27.678	0.297
St. Dev.		24.829	0.000	22.168	30.458	20.962	0.728
R.S.D. %		156	#DIV/0!	42	53	76	245
Min		0.000	0.000	21.727	39.266	15.833	0.000
Max		64.418	0.000	85.106	118.504	69.888	1.783
n		6	6	6	6	6	6
3/10/92-3,1-A	3	0.00	0.00	56.44	51.37	30.87	0.00
3/10/92-3,1-B	3	0.01	0.00	48.54	44.11	24.97	0.00
Average	3	0.007	0.000	52.488	47.738	27.922	0.000
St. Dev.		0.010	0.000	5.589	5.135	4.175	0.000
R.S.D. %		141	#DIV/0!	11	11	15	#DIV/0!
Min		0.000	0.000	48.536	44.10	24.970	0.000
Max		0.014	0.000	56.440	51.369	30.874	0.000
n		2	2	2	2	2	2
3/10/92-3,2-A	3	0.00	0.00	68.92	41.75	27.08	0.00
3/10/92-3,2-B	3	0.00	0.00	59.19	38.62	19.79	0.00
Average	3	0.000	0.000	64.055	44.184	23.439	0.000
St. Dev.		0.000	0.000	6.884	7.872	5.155	0.000
R.S.D. %		#DIV/0!	#DIV/0!	7	18	22	#DIV/0!
Min		0.000	0.000	59.188	38.617	19.794	0.000
Max		0.000	0.000	68.923	49.750	27.084	0.000
n		2	2	2	2	2	2
Average	3	0.0034	0.0000	58.2716	45.9608	25.6806	0.0000
St. Dev.		0.0068	0.0000	8.4149	5.8016	4.6224	0.0000
R.S.D. %		200	#DIV/0!	14	13	18	#DIV/0!
Min		0.0000	0.0000	48.5357	38.6173	19.7943	0.0000
Max		0.0136	0.0000	68.9231	51.3691	30.8744	0.0000
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB044, ng/g	CB066, ng/g	CB101, ng/g	CB087, ng/g	CB077, ng/g	CB154, ng/g
2/27/92-0,0	0	0.00	294.46	174.75	67.99	373.02	0.00
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	39.09
Average	0	0.000	147.230	87.377	33.994	186.511	19.545
St. Dev.		0.000	208.215	123.570	48.075	263.766	27.641
R.S.D. %		#DIV/0!	141	141	141	141	141
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		0.000	294.461	174.754	67.988	373.022	39.090
n		2	2	2	2	2	2
3/2/92-2,1-A	2	0.00	33.20	74.62	21.98	123.22	65.66
3/2/92-2,1-B	2	14.23	67.00	167.78	42.54	212.83	110.54
Average	2	7.113	50.103	121.199	32.258	168.024	88.096
St. Dev.		10.059	23.899	65.874	14.534	63.367	31.736
R.S.D. %		141	48	54	45	38	36
Min		0.000	33.204	74.619	21.980	123.216	65.655
Max		14.226	67.002	167.778	42.535	212.831	110.537
n		2	2	2	2	2	2
3/2/92-2,2-A	2	0.00	25.02	85.38	14.25	96.55	55.35
3/2/92-2,2-B	2	0.00	41.99	95.78	12.78	99.42	55.12
Average	2	0.000	33.503	90.581	13.513	97.987	55.235
St. Dev.		0.000	1.997	7.351	1.036	2.033	0.163
R.S.D. %		#DIV/0!	36	8	8	2	0
Min		0.000	25.020	85.383	12.783	96.550	55.120
Max		0.000	41.987	95.779	14.248	99.424	55.351
n		2	2	2	2	2	2
3/4/92-2,1-A	2	37.29	60.41	142.73	69.07	195.74	0.00
3/4/92-2,1-B	2	0.00	35.69	78.62	18.80	83.44	44.38
Average	2	18.647	48.050	110.671	43.934	139.590	22.189
St. Dev.		26.371	17.484	45.332	35.541	79.414	31.380
R.S.D. %		141	36	41	81	57	141
Min		0.000	35.687	78.616	18.803	83.436	0.000
Max		37.294	60.413	142.726	69.065	195.745	44.377
n		2	2	2	2	2	2
Average	2	8.587	43.886	107.483	29.982	135.200	55.173
St. Dev.		15.171	16.422	38.513	21.988	55.298	35.597
R.S.D. %		177	37	36	74	41	65
Min		0.000	25.020	74.619	12.783	83.436	0.000
Max		37.294	67.002	167.778	69.065	212.831	110.537
n		6	6	6	6	6	6
3/10/92-3,1-A	3	0.00	48.24	112.59	24.65	115.86	60.56
3/10/92-3,1-B	3	0.00	32.94	87.62	22.39	96.10	50.60
Average	3	0.000	40.588	100.109	23.620	105.982	55.580
St. Dev.		0.000	10.821	17.655	1.455	13.972	7.047
R.S.D. %		#DIV/0!	27	18	6	13	13
Min		0.000	32.937	87.625	22.591	96.103	50.597
Max		0.000	48.240	112.593	24.649	115.862	60.563
n		2	2	2	2	2	2
3/10/92-3,2-A	3	0.00	46.02	102.13	27.64	110.97	57.49
3/10/92-3,2-B	3	0.00	35.98	82.46	20.84	85.16	45.88
Average	3	0.000	41.001	92.298	24.244	98.068	51.686
St. Dev.		0.000	7.097	13.909	4.808	18.250	8.205
R.S.D. %		#DIV/0!	17	15	20	19	16
Min		0.000	35.982	82.463	20.844	85.163	45.884
Max		0.000	46.020	102.133	27.643	110.973	57.488
n		2	2	2	2	2	2
Average	3	0.0000	40.7946	96.2033	23.9319	102.0252	53.6330
St. Dev.		0.0000	7.4750	13.7378	2.9226	14.0347	6.6369
R.S.D. %		#DIV/0!	18	14	12	14	12
Min		0.0000	32.9370	82.4625	20.8436	85.1632	45.8843
Max		0.0000	48.2395	112.5927	27.6435	115.8620	60.5630
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB118, ng/g	CB188, ng/g	CB153, ug/g	CB105, ng/g	CB138, ng/g	CB126, ng/g
2/27/92-0,0	0	427.40	73.17	160.19	128.68	0.00	50.87
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	213.698	36.584	80.096	64.341	0.000	25.433
St. Dev.		302.215	51.738	113.272	90.991	0.000	35.967
R.S.D. %		141	141	141	141	NDIV/01	141
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		427.396	73.169	160.191	128.681	0.000	50.865
n		2	2	2	2	2	2
3/2/92-2,1-A	2	118.26	0.00	44.42	54.88	72.56	12.05
3/2/92-2,1-B	2	217.31	0.00	104.50	92.41	160.55	11.84
Average	2	167.788	0.000	74.464	73.647	116.554	11.947
St. Dev.		70.041	0.000	42.483	26.537	62.221	0.147
R.S.D. %		42	NDIV/01	57	36	53	1
Min		118.261	0.000	44.424	54.883	72.557	11.843
Max		217.314	0.000	104.504	92.411	160.550	12.052
n		2	2	2	2	2	2
3/2/92-2,2-A	2	120.16	0.00	42.40	32.67	61.64	6.20
3/2/92-2,2-B	2	137.84	18.08	56.82	38.42	77.48	11.29
Average	2	129.000	9.041	49.606	35.543	69.561	8.741
St. Dev.		12.499	12.786	10.196	4.066	11.201	3.601
R.S.D. %		10	141	21	11	16	41
Min		120.162	0.000	42.397	32.668	61.641	6.195
Max		137.839	18.082	56.816	38.418	77.491	11.288
n		2	2	2	2	2	2
3/4/92-2,1-A	2	75.83	23.06	101.76	107.68	163.07	16.27
3/4/92-2,1-B	2	121.18	14.75	57.88	31.72	72.26	6.50
Average	2	98.504	18.908	79.818	69.803	117.666	11.383
St. Dev.		32.072	5.873	31.032	53.852	64.213	6.911
R.S.D. %		33	31	39	77	55	61
Min		75.826	14.752	57.875	31.723	72.261	6.496
Max		121.183	23.058	101.761	107.882	163.071	16.269
n		2	2	2	2	2	2
Average	2	131.764	9.315	67.963	59.664	101.260	10.691
St. Dev.		46.720	10.541	27.969	32.806	47.193	3.807
R.S.D. %		35	113	41	55	47	36
Min		75.826	0.000	42.397	31.723	61.641	6.195
Max		217.314	23.058	104.504	107.882	163.071	16.269
n		6	6	6	6	6	6
3/10/92-3,1-A	3	162.91	20.09	82.11	53.20	98.42	7.03
3/10/92-3,1-B	3	131.53	16.26	62.85	38.59	73.45	6.18
Average	3	147.219	18.175	72.479	45.898	85.939	6.606
St. Dev.		22.191	2.710	13.623	10.332	17.657	0.598
R.S.D. %		15	15	19	23	21	9
Min		131.528	16.259	62.847	38.592	73.453	6.183
Max		162.910	20.092	82.111	53.203	98.425	7.028
n		2	2	2	2	2	2
3/10/92-3,2-A	3	144.98	18.92	70.02	45.52	93.37	10.58
3/10/92-3,2-B	3	127.89	17.82	62.99	28.91	74.06	5.12
Average	3	136.435	18.367	66.503	37.213	83.711	7.902
St. Dev.		12.080	0.781	4.968	11.748	13.655	3.931
R.S.D. %		9	4	7	32	16	50
Min		127.894	17.815	62.990	28.906	74.055	5.122
Max		144.977	18.920	70.016	45.520	93.366	10.681
n		2	2	2	2	2	2
Average	3	141.8270	18.2714	69.4912	41.5554	84.8249	7.2536
St. Dev.		15.8402	1.6321	9.0546	10.3306	12.9514	2.4146
R.S.D. %		11	9	13	25	15	33
Min		127.8935	16.2591	62.8472	28.9064	73.4533	5.1218
Max		162.9100	20.0915	82.1115	53.2031	98.4246	10.6813
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB187, ng/g	CB128, ng/g	CB200, ng/g	CB184, ng/g	CB170, ng/g	CB195, ng/g
2/27/92-0,0	0	31.48	2.85	0.00	85.48	0.00	93.64
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	15.741	1.423	0.000	42.738	0.000	46.820
St. Dev.		22.261	2.012	0.000	60.441	0.000	66.213
R.S.D. %		141	141	#DIV/0!	141	#DIV/0!	141
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		31.482	2.846	0.000	85.477	0.000	93.639
n		2	2	2	2	2	2
3/2/92-2,1-A	2	8.49	17.98	0.00	24.75	0.00	0.00
3/2/92-2,1-B	2	16.85	27.28	0.00	42.58	12.00	0.00
Average	2	12.668	22.628	0.000	33.667	6.000	0.000
St. Dev.		5.914	6.574	0.000	12.605	8.485	0.000
R.S.D. %		47	29	#DIV/0!	37	141	#DIV/0!
Min		8.486	17.979	0.000	24.754	0.000	0.000
Max		16.849	27.276	0.000	42.581	12.000	0.000
n		2	2	2	2	2	2
3/2/92-2,2-A	2	0.39	8.56	0.00	21.94	0.00	0.00
3/2/92-2,2-B	2	8.29	10.31	0.00	26.40	0.00	0.00
Average	2	4.338	9.435	0.000	24.169	0.000	0.000
St. Dev.		5.585	1.239	0.000	3.159	0.000	0.000
R.S.D. %		129	13	#DIV/0!	13	#DIV/0!	#DIV/0!
Min		0.383	8.559	0.000	21.935	0.000	0.000
Max		8.287	10.311	0.000	26.402	0.000	0.000
n		2	2	2	2	2	2
3/4/92-2,1-A	2	21.42	28.22	13.05	43.78	54.25	2.58
3/4/92-2,1-B	2	10.34	8.70	0.00	23.81	0.00	0.00
Average	2	15.880	13.457	6.527	33.795	27.124	1.289
St. Dev.		7.234	13.801	9.231	14.121	38.359	1.823
R.S.D. %		49	75	141	42	141	141
Min		10.340	8.699	0.000	23.810	0.000	0.000
Max		21.419	28.216	13.054	43.780	54.248	2.578
n		2	2	2	2	2	2
Average	2	10.962	16.840	2.176	30.544	11.041	0.430
St. Dev.		7.341	9.134	5.329	9.902	21.704	1.052
R.S.D. %		67	54	245	32	197	245
Min		0.388	8.559	0.000	21.935	0.000	0.000
Max		21.419	28.216	13.054	43.780	54.248	2.578
n		6	6	6	6	6	6
3/10/92-3,1-A	3	14.87	14.15	0.00	33.30	4.96	0.81
3/10/92-3,1-B	3	9.06	10.97	0.00	25.84	0.00	0.00
Average	3	11.962	12.560	0.000	29.563	2.480	0.404
St. Dev.		4.106	2.253	0.000	5.276	3.508	0.572
R.S.D. %		34	18	#DIV/0!	18	141	141
Min		9.858	10.966	0.000	25.836	0.000	0.000
Max		14.866	14.153	0.000	33.296	4.961	0.809
n		2	2	2	2	2	2
3/10/92-3,2-A	3	15.74	15.23	0.00	26.69	1.57	0.00
3/10/92-3,2-B	3	17.42	14.90	0.00	27.53	3.07	8.93
Average	3	16.579	15.062	0.000	27.108	2.322	4.463
St. Dev.		1.189	0.233	0.000	0.596	1.062	6.312
R.S.D. %		7	2	#DIV/0!	2	46	141
Min		15.738	14.890	0.000	26.687	1.571	0.000
Max		17.420	15.227	0.000	27.529	3.073	8.926
n		2	2	2	2	2	2
Average	3	14.3703	13.8110	0.0000	28.3366	2.4012	2.4337
St. Dev.		3.6328	1.9490	0.0000	3.3777	2.1179	4.3449
R.S.D. %		25	14	#DIV/0!	12	88	179
Min		9.8582	10.9663	0.0000	25.8350	0.0000	0.0000
Max		17.4197	15.2271	0.0000	33.2958	4.9605	8.9259
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB206, ng/g	CB209, ng/g	CB sum, ng/g
2/27/92-0,0	0	91.71	57.68	2309.68
3/10/92-0,0	0	0.00	0.00	39.09
Average	0	45.854	28.840	1174.384
St. Dev.		64.847	40.786	1605.548
R.S.D. %		141	141	137
Min		0.000	0.000	39.090
Max		91.708	57.680	2309.678
n		2	2	2
3/2/92-2,1-A	2	0.00	8.32	828.06
3/2/92-2,1-B	2	16.34	83.62	1661.54
Average	2	8.170	45.969	1244.801
St. Dev.		11.554	53.248	589.360
R.S.D. %		141	116	47
Min		0.000	8.317	828.061
Max		16.340	83.621	1661.541
n		2	2	2
3/2/92-2,2-A	2	0.00	0.67	734.96
3/2/92-2,2-B	2	0.00	5.40	811.80
Average	2	0.000	3.033	773.381
St. Dev.		0.000	3.348	54.328
R.S.D. %		#DIV/0!	110	7
Min		0.000	0.665	734.965
Max		0.000	5.400	811.797
n		2	2	2
3/4/92-2,1-A	2	6.76	13.56	1359.29
3/4/92-2,1-B	2	0.00	6.64	752.55
Average	2	3.379	10.100	1035.918
St. Dev.		4.779	4.896	429.030
R.S.D. %		141	48	41
Min		0.000	6.638	752.548
Max		6.758	13.562	1359.288
n		2	2	2
Average	2	3.850	19.701	1024.700
St. Dev.		6.689	31.593	389.750
R.S.D. %		174	160	38
Min		0.000	0.665	734.965
Max		16.340	83.621	1661.541
n		6	6	6
3/10/92-3,1-A	3	0.00	4.83	997.28
3/10/92-3,1-B	3	0.00	5.73	788.29
Average	3	0.000	5.279	892.782
St. Dev.		0.000	0.632	147.776
R.S.D. %		#DIV/0!	12	17
Min		0.000	4.833	788.289
Max		0.000	5.726	997.276
n		2	2	2
3/10/92-3,2-A	3	0.00	2.23	934.95
3/10/92-3,2-B	3	0.00	0.05	776.61
Average	3	0.000	1.141	855.781
St. Dev.		0.000	1.542	111.960
R.S.D. %		#DIV/0!	133	13
Min		0.000	0.051	776.613
Max		0.000	2.231	934.948
n		2	2	2
Average	3	0.0000	3.2101	874.2815
St. Dev.		0.0000	2.5758	109.1514
R.S.D. %		#DIV/0!	80	12
Min		0.0000	0.0506	776.6127
Max		0.0000	5.7260	997.2762
n		4	4	4

BRH PES 1	Dynes/cm ²	HCB, ng/g	HEPT, ng/g	ALDRIN, ng/g	OP'DDE, ng/g	DIELDRIN, ng/g	PP'DDE, ng/g
2/27/92-0,0	0	NA	NA	NA	NA	NA	NA
3/10/92-0,0	0	11.68	0.00	0.00	0.00	0.00	19.89
Average	0	11.680	0.000	0.000	0.000	0.000	19.890
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		11.680	0.000	0.000	0.000	0.000	19.890
Max		11.680	0.000	0.000	0.000	0.000	19.890
n		1	1	1	1	1	1
3/2/92-2,1-A	2	11.68	6.25	0.00	0.00	NA	63.46
3/2/92-2,1-B	2	10.64	9.09	0.00	65.03	NA	87.26
Average	2	11.136	7.669	0.000	32.513	#DIV/0!	75.360
St. Dev.		0.737	2.005	0.000	45.941	#DIV/0!	16.835
R.S.D. %		7	26	#DIV/0!	141	#DIV/0!	22
Min		10.635	6.251	0.000	0.000	0.000	63.456
Max		11.677	9.088	0.000	65.027	0.000	87.264
n		2	2	2	2	0	2
3/2/92-2,2-A	2	39.02	0.00	0.00	0.00	16.83	40.81
3/2/92-2,2-B	2	5.08	0.00	0.00	18.93	NA	38.05
Average	2	22.048	0.000	0.000	9.467	16.829	39.428
St. Dev.		24.001	0.000	0.000	13.388	#DIV/0!	1.951
R.S.D. %		109	#DIV/0!	#DIV/0!	141	#DIV/0!	5
Min		5.076	0.000	0.000	0.000	16.829	38.049
Max		39.019	0.000	0.000	18.934	16.829	40.808
n		2	2	2	2	1	2
3/4/92-2,1-A	2	NA	NA	NA	NA	NA	NA
3/4/92-2,1-B	2	6.18	0.00	0.00	0.00	NA	0.00
Average	2	6.185	0.000	0.000	0.000	#DIV/0!	0.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		6.185	0.000	0.000	0.000	0.000	0.000
Max		6.185	0.000	0.000	0.000	0.000	0.000
n		1	1	1	1	0	1
Average	2	14.519	3.068	0.000	16.792	16.829	45.915
St. Dev.		13.983	4.319	0.000	28.183	#DIV/0!	32.456
R.S.D. %		96	141	#DIV/0!	168	#DIV/0!	71
Min		5.076	0.000	0.000	0.000	16.829	0.000
Max		39.019	9.088	0.000	65.027	16.829	37.264
n		5	5	5	5	1	5
3/10/92-3,1-A	3	2.58	0.00	0.00	20.60	NA	45.31
3/10/92-3,1-B	3	4.33	0.00	0.00	16.08	NA	39.27
Average	3	3.553	0.000	0.000	18.340	#DIV/0!	42.288
St. Dev.		1.375	0.000	0.000	3.194	#DIV/0!	4.273
R.S.D. %		39	#DIV/0!	#DIV/0!	17	#DIV/0!	10
Min		2.581	0.000	0.000	16.081	0.000	39.266
Max		4.526	0.000	0.000	20.598	0.000	45.309
n		2	2	2	2	0	2
3/10/92-3,2-A	3	3.93	0.00	0.00	15.15	NA	42.62
3/10/92-3,2-B	3	4.49	0.00	0.00	12.92	NA	10.23
Average	3	4.211	0.000	0.000	14.037	#DIV/0!	26.427
St. Dev.		0.392	0.000	0.000	1.575	#DIV/0!	22.899
R.S.D. %		9	#DIV/0!	#DIV/0!	11	#DIV/0!	87
Min		3.933	0.000	0.000	12.923	0.000	10.236
Max		4.488	0.000	0.000	15.151	0.000	42.619
n		2	2	2	2	0	2
Average	3	3.8820	0.0000	0.0000	16.1883	#DIV/0!	34.3573
St. Dev.		0.9087	0.0000	0.0000	3.2247	#DIV/0!	16.2705
R.S.D. %		23	#DIV/0!	#DIV/0!	20	#DIV/0!	47
Min		2.5808	0.0000	0.0000	12.9234	0.0000	10.2350
Max		4.5259	0.0000	0.0000	20.5982	0.0000	45.3092
n		4	4	4	4	0	4

BRH PES 1	Dynes/cm ²	OP'DDD, ng/g	PP'DDD, ng/g	OP'DDT, ng/g	M'REX, ng/g
2/27/92-0,0	0	NA	NA	NA	NA
3/10/92-0,0	0	0.00	0.00	0.00	0.00
Average	0	0.000	0.000	0.000	0.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000
Max		0.000	0.000	0.000	0.000
n		1	1	1	1
3/2/92-2,1-A	2	43.38	118.49	23.41	1.37
3/2/92-2,1-B	2	73.04	0.00	0.00	0.00
Average	2	58.206	59.246	11.704	0.683
St. Dev.		20.973	83.787	16.533	0.966
R.S.D. %		36	141	141	141
Min		43.376	0.000	0.000	0.000
Max		73.037	118.493	23.409	1.366
n		2	2	2	2
3/2/92-2,2-A	2	89.98	0.00	0.00	0.00
3/2/92-2,2-B	2	36.42	13.00	0.00	9.09
Average	2	63.201	6.500	0.000	4.544
St. Dev.		37.873	9.192	0.000	6.426
R.S.D. %		60	141	#DIV/0!	141
Min		36.421	0.000	0.000	0.000
Max		89.982	12.999	0.000	9.088
n		2	2	2	2
3/4/92-2,1-A	2	NA	NA	NA	NA
3/4/92-2,1-B	2	29.37	11.87	7.68	1.06
Average	2	29.373	11.873	7.680	1.065
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		29.373	11.873	7.680	1.065
Max		29.373	11.873	7.680	1.065
n		1	1	1	1
Average	2	54.438	28.673	6.218	2.304
St. Dev.		25.906	50.596	10.169	3.843
R.S.D. %		48	176	164	167
Min		29.373	0.000	0.000	0.000
Max		89.982	118.493	23.409	9.088
n		5	5	5	5
3/10/92-3,1-A	3	40.02	0.00	0.00	0.00
3/10/92-3,1-B	3	33.49	11.14	0.00	0.00
Average	3	36.752	5.572	0.000	0.000
St. Dev.		4.618	7.880	0.000	0.000
R.S.D. %		13	141	#DIV/0!	#DIV/0!
Min		33.487	0.000	0.000	0.000
Max		40.018	11.145	0.000	0.000
n		2	2	2	2
3/10/92-3,2-A	3	38.05	5.00	10.73	11.01
3/10/92-3,2-B	3	30.35	9.06	8.44	32.16
Average	3	34.200	7.031	9.584	21.583
St. Dev.		5.438	2.865	1.620	14.956
R.S.D. %		16	41	17	69
Min		30.354	5.005	8.439	11.007
Max		38.045	9.057	10.730	32.158
n		2	2	2	2
Average	3	35.4762	6.3016	4.7922	10.7913
St. Dev.		4.3746	4.9139	5.6121	15.1602
R.S.D. %		12	78	117	140
Min		30.3345	0.0000	0.0000	0.0000
Max		40.0176	11.1445	10.7303	32.1583
n		4	4	4	4

BRHPES 1	Dynes/cm ²	NAP, ng/g	2MN, ng/g	1MN, ng/g	BTP, ng/g	DMN, ng/g	ACL, ng/g	ACT, ng/g
2/27/92-0,0	0	0.0	0.0	0.0	10982.5	1338.1	0.0	0.0
3/10/92-0,0	0	15641.0	4600.1	4861.6	0.0	8669.4	0.0	0.0
Average	0	7820.522	2300.048	2430.807	5491.231	5003.740	0.000	0.000
St. Dev.		11059.889	3252.759	3437.681	7765.774	5184.037	0.000	0.000
R.S.D. %		141	141	141	141	104	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	1338.073	0.000	0.000
Max		15641.045	4600.096	4861.614	10982.463	8669.408	0.000	0.000
n		2	2	2	2	2	2	2
3/2/92-2,1-A	2	75.0	295.5	0.0	220.4	478.6	0.0	0.0
3/2/92-2,1-B	2	1898.3	719.9	349.5	0.0	1230.7	149.8	0.0
Average	2	986.647	507.699	174.769	110.183	854.581	74.917	0.000
St. Dev.		1289.244	300.161	247.160	155.823	531.790	105.948	0.000
R.S.D. %		131	59	141	141	62	141	#DIV/0!
Min		75.014	295.453	0.000	0.000	478.649	0.000	0.000
Max		1898.281	719.945	349.537	220.366	1230.714	149.833	0.000
n		2	2	2	2	2	2	2
3/2/92-2,2-A	2	752.5	0.0	0.0	118.4	319.2	0.0	0.0
3/2/92-2,2-B	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average	2	376.245	0.000	0.000	59.209	159.624	0.000	0.000
St. Dev.		532.091	0.000	0.000	83.735	225.743	0.000	0.000
R.S.D. %		141	#DIV/0!	#DIV/0!	141	141	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		752.490	0.000	0.000	118.419	319.249	0.000	0.000
n		2	2	2	2	2	2	2
3/4/92-2,1-A	2	594.2	2180.0	660.4	3478.2	3669.1	2898.2	1312.7
3/4/92-2,1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	594.182	2180.070	660.364	3478.182	3669.091	2898.182	1312.727
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		594.182	2180.000	660.364	3478.182	3669.091	2898.182	1312.727
Max		594.182	2180.000	660.364	3478.182	3669.091	2898.182	1312.727
n		1	1	1	1	1	1	1
Average	2	663.993	639.000	201.580	763.393	1139.540	609.603	262.543
St. Dev.		762.226	910.481	297.606	1528.482	1484.516	1280.998	587.069
R.S.D. %		115	142	147	199	130	210	224
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		1898.281	2180.000	660.364	3478.182	3669.091	2898.182	1312.727
n		5	5	5	5	5	5	5
3/10/92-3,1-A	3	903.4	150.5	0.0	199.7	240.4	0.0	0.0
3/10/92-3,1-B	3	1273.1	0.0	0.0	0.0	0.0	0.0	0.0
Average	3	1089.264	75.235	0.000	95.878	120.220	0.000	0.000
St. Dev.		259.965	106.398	0.000	141.138	170.017	0.000	0.000
R.S.D. %		24	141	#DIV/0!	141	141	#DIV/0!	#DIV/0!
Min		903.448	0.000	0.000	0.000	0.000	0.000	0.000
Max		1273.067	150.470	0.000	199.740	240.440	0.000	0.000
n		2	2	2	2	2	2	2
3/10/92-3,2-A	3	2111.3	0.0	0.0	15.6	142.1	0.0	0.0
3/10/92-3,2-B	3	6415.0	0.0	0.0	0.0	76.4	0.0	0.0
Average	3	4263.150	0.000	0.000	7.709	109.282	0.000	0.000
St. Dev.		3043.175	0.000	0.000	11.015	46.460	0.000	0.000
R.S.D. %		71	#DIV/0!	#DIV/0!	141	43	#DIV/0!	#DIV/0!
Min		2111.301	0.000	0.000	0.000	76.430	0.000	0.000
Max		6415.000	0.000	0.000	15.577	142.134	0.000	0.000
n		2	2	2	2	2	2	2
Average	3	2676.2070	37.6175	0.0000	53.8293	114.7511	0.0000	0.0000
St. Dev.		2543.0987	75.2350	0.0000	97.5306	101.9540	0.0000	0.0000
R.S.D. %		95	200	#DIV/0!	181	89	#DIV/0!	#DIV/0!
Min		903.4400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Max		6415.0000	150.4700	0.0000	199.7400	240.4400	0.0000	0.0000
n		4	4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	TMN, ng/g	FLU, ng/g	PHE, ng/g	ANT, ng/g	IMP, ng/g	FLA, ng/g	PYR, ng/g
2/27/92-0.0	0	4457.4	558.1	2877.1	0.0	318.5	700.3	0.0
3/10/92-0.0	0	5180.7	0.0	0.0	0.0	0.0	850.3	25.3
Average	0	4819.062	279.062	1438.570	0.000	159.269	775.317	12.649
St. Dev.		511.437	394.654	2034.445	0.000	225.241	106.061	17.888
R.S.D. %		11	141	141	#DIV/0!	141	14	141
Min		4457.421	0.000	0.000	0.000	0.000	700.321	0.000
Max		5180.703	558.125	2877.140	0.000	318.538	850.313	25.297
"		2	2	2	2	2	2	2
3/2/92-2.1-A	2	0.0	944.7	1568.3	150.1	419.6	2959.9	2642.1
3/2/92-2.1-B	2	3566.5	101.2	2422.5	750.3	304.9	4563.9	4554.5
Average	2	1783.255	522.956	1995.391	450.237	362.210	3761.908	3598.278
St. Dev.		2521.903	596.397	604.032	424.392	81.105	1134.233	1352.276
R.S.D. %		141	114	30	94	22	30	38
Min		0.000	101.239	1568.276	150.147	304.860	2959.884	2642.074
Max		3566.510	944.672	2422.506	750.327	419.560	4563.931	4554.481
"		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.0	425.1	2624.3	497.7	691.4	4334.8	4034.3
3/2/92-2.2-B	2	0.0	0.0	1129.0	0.0	0.0	2984.4	3158.1
Average	2	0.000	212.561	1876.634	248.828	345.706	3659.545	3596.175
St. Dev.		0.000	303.647	1057.354	351.896	488.903	954.894	619.355
R.S.D. %		#DIV/0!	141	56	141	141	26	17
Min		0.000	0.000	1128.972	0.000	0.000	2984.354	3158.084
Max		0.000	425.122	2624.297	497.657	691.413	4334.777	4034.267
"		2	2	2	2	2	2	2
3/4/92-2.1-A	2	4192.7	130.9	976.0	194.5	245.5	932.7	983.6
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	4192.727	130.909	976.000	194.545	245.455	932.727	983.636
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		4192.727	130.909	976.000	194.545	245.455	932.727	983.636
Max		4192.727	130.909	976.000	194.545	245.455	932.727	983.636
"		1	1	1	1	1	1	1
Average	2	1551.847	328.389	1744.010	318.535	332.258	3155.135	3074.509
St. Dev.		2136.457	383.170	747.371	301.547	252.633	1447.640	1385.387
R.S.D. %		138	120	43	95	76	46	45
Min		0.000	0.000	976.000	0.000	0.000	932.727	983.636
Max		4192.727	944.672	2624.297	750.327	691.413	4563.931	4554.481
"		5	5	5	5	5	5	5
3/10/92-3.1-A	3	0.0	20.6	604.1	222.1	356.3	2321.3	2347.4
3/10/92-3.1-B	3	0.0	27.3	1031.9	285.9	434.5	3175.1	3296.7
Average	3	0.000	23.970	817.984	253.990	395.353	2748.203	2822.075
St. Dev.		0.000	4.737	302.463	45.099	55.300	603.789	671.278
R.S.D. %		#DIV/0!	20	37	18	14	22	24
Min		0.000	20.620	604.110	222.100	356.250	2321.260	2347.410
Max		0.000	27.320	1031.857	285.880	434.456	3175.146	3296.741
"		1	2	2	2	2	2	2
3/10/92-3.2-A	3	0.0	0.0	878.6	98.1	290.3	3102.1	3367.7
3/10/92-3.2-B	3	294.0	81.3	2123.2	571.9	908.1	5256.0	4905.3
Average	3	146.985	40.650	1500.933	334.973	599.227	4179.044	4136.527
St. Dev.		207.868	57.488	880.076	335.037	436.841	1523.017	1087.251
R.S.D. %		141	141	59	100	73	36	26
Min		0.000	0.000	878.625	98.046	290.334	3102.108	3367.725
Max		293.976	81.300	2123.240	571.880	908.120	5255.980	4905.330
"		2	2	2	2	2	2	2
Average	3	73.4925	32.3099	1159.4581	294.4815	497.2591	3463.6237	3479.3014
St. Dev.		146.9850	34.6675	666.4424	200.7003	280.1502	1255.8461	1058.3814
R.S.D. %		200	107	57	68	56	36	30
Min		0.0000	0.0000	604.1100	98.0664	290.3339	2321.2600	2347.4100
Max		293.9700	81.3000	2123.2400	571.8800	908.1200	5255.9800	4905.1300
"		4	4	4	4	4	4	4

BRH PES 1	Dynaw/cm^2	BAA, ug/g	CHR, ug/g	BBF, ug/g	BKF, ug/g	BEP, ug/g	BAP, ug/g	PBR, ug/g
2/27/92-0.0	0	114.1	0.0	178.5	43.5	1200.5	202.4	0.0
3/10/92-0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average	0	57.068	0.000	89.261	21.756	600.258	101.206	0.000
St. Dev.		80.706	0.000	126.234	30.768	848.893	143.126	0.000
R.S.D.%		141	#DIV/0!	141	141	141	141	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		114.136	0.000	178.522	43.512	1200.516	202.411	0.000
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	128.6	845.7	1099.4	517.7	1999.8	728.8	1077.4
3/2/92-2.1-B	2	1331.9	1565.2	2968.6	1901.6	3126.3	1101.6	917.5
Average	2	730.262	1205.464	2034.009	1209.629	2563.070	915.220	1007.664
St. Dev.		850.867	508.736	1321.776	978.547	796.567	263.583	127.223
R.S.D.%		117	42	65	81	31	29	13
Min		128.608	845.733	1099.372	517.692	1999.812	728.839	917.502
Max		1331.916	1565.194	2968.646	1901.566	3126.328	1101.601	1097.425
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	1647.4	2797.0	2408.9	2688.0	1905.2	1985.3	152.2
3/2/92-2.2-B	2	431.4	861.9	1636.1	1370.5	1676.4	1494.3	284.1
Average	2	1039.383	1829.438	2022.501	2029.210	1790.775	1739.823	218.146
St. Dev.		859.828	1368.318	546.490	931.610	161.816	347.209	93.248
R.S.D.%		83	75	27	46	9	20	43
Min		431.394	861.888	1636.074	1370.462	1676.355	1494.309	152.210
Max		1647.375	2796.982	2408.928	2687.987	1905.196	1985.336	284.082
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	538.2	923.6	1156.4	923.6	910.9	752.7	207.3
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	538.182	923.636	1156.364	923.636	910.909	752.727	207.273
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		538.182	923.636	1156.364	923.636	910.909	752.727	207.273
Max		538.182	923.636	1156.364	923.636	910.909	752.727	207.273
n		1	1	1	1	1	1	1
Average	2	815.495	1398.687	1853.877	1488.263	1923.720	1212.562	531.690
St. Dev.		643.227	837.039	814.560	849.184	796.771	532.520	441.438
R.S.D.%		79	60	44	57	41	44	83
Min		128.608	845.733	1099.372	517.692	910.909	728.839	152.210
Max		1647.375	2796.982	2968.646	2687.957	3126.328	1985.336	1097.425
n		5	5	5	5	5	5	5
3/10/92-3.1-A	3	737.4	1656.2	1362.1	1491.2	1402.9	969.7	551.8
3/10/92-3.1-B	3	823.4	2165.2	1743.3	1388.0	1776.9	1118.8	174.4
Average	3	780.424	1910.653	1552.692	1439.567	1589.901	1044.279	363.139
St. Dev.		60.831	359.921	269.352	72.950	264.473	165.457	266.863
R.S.D.%		8	19	17	5	17	10	73
Min		737.410	1656.150	1362.090	1387.983	1402.890	969.710	174.439
Max		823.437	2165.155	1743.294	1491.150	1776.912	1118.849	551.840
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	992.5	1728.9	1656.2	1994.0	2383.8	145.6	309.7
3/10/92-3.2-B	3	3122.9	3124.6	2512.7	3356.1	1789.6	438.7	719.4
Average	3	2057.699	2426.743	2084.452	2675.876	2086.684	292.129	514.547
St. Dev.		1506.464	986.947	685.605	963.142	420.183	207.212	289.787
R.S.D.%		73	41	29	36	20	71	56
Min		992.460	1728.866	1656.225	1994.031	1789.570	145.609	309.693
Max		3122.930	3124.620	2512.680	3356.120	2383.799	438.650	719.400
n		2	2	2	2	2	2	2
Average	3	1419.0614	2168.6979	1818.5723	2057.3212	1838.2926	668.2044	438.8430
St. Dev.		1140.8428	675.7605	490.6408	905.4367	405.5013	454.5282	243.6321
R.S.D.%		80	31	27	44	22	68	56
Min		737.4100	1656.1500	1362.0900	1387.9834	1402.8900	145.6087	174.4390
Max		3122.9300	3124.6200	2512.6800	3356.1200	2383.7987	1118.8489	719.4000
n		4	4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	INP, ng/g	DRA, ng/g	BTE, ng/g	Σ PAHs, ng/g
2/27/92-0,0	0	0.0	0.0	0.0	22971.2
3/10/92-0,0	0	0.0	1245.7	0.0	41074.2
Average	0	0.000	622.856	0.000	32022.683
St. Dev.		0.000	880.851	0.000	12800.762
R.S.D. %		#DIV/0!	141	#DIV/0!	40
Min		0.000	0.000	0.000	22971.177
Max		0.000	1245.712	0.000	41074.188
"		2	2	2	2
3/2/92-2,1-A	2	678.9	366.3	1069.4	18286.2
3/2/92-2,1-B	2	3375.1	891.1	3460.7	41251.8
Average	2	2026.988	628.733	2265.062	29769.030
St. Dev.		1906.502	371.075	1690.885	16239.126
R.S.D. %		94	59	75	55
Min		678.887	366.244	1069.426	18286.234
Max		3375.089	891.123	3460.698	41251.826
"		2	2	2	2
3/2/92-2,2-A	2	2540.8	0.0	3253.2	33175.7
3/2/92-2,2-B	2	35.4	0.0	3052.3	18113.7
Average	2	1288.105	0.000	3152.748	25644.676
St. Dev.		1771.589	0.000	142.021	10650.409
R.S.D. %		138	#DIV/0!	5	42
Min		35.462	0.000	3052.324	18113.709
Max		2540.807	0.000	3253.172	33175.653
"		2	2	2	2
3/4/92-2,1-A	2	794.5	62.9	860.0	29578.9
3/4/92-2,1-B	2	LOST	LOST	LOST	LOST
Average	2	794.545	62.909	860.000	29578.909
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		794.545	62.909	860.000	29578.909
Max		794.545	62.909	860.000	29578.909
"		1	1	1	1
Average	2	1484.946	264.075	2339.124	28081.264
St. Dev.		1406.684	381.964	1265.109	9961.857
R.S.D. %		95	145	54	35
Min		35.402	0.000	860.000	18113.706
Max		3375.089	891.123	3460.698	41251.826
"		5	5	5	5
3/10/92-3,1-A	3	789.7	36.5	552.5	15723.5
3/10/92-3,1-B	3	814.4	0.0	1098.6	20627.6
Average	3	802.057	18.245	825.538	18175.549
St. Dev.		17.475	25.802	386.177	3467.692
R.S.D. %		2	141	47	19
Min		789.700	0.000	552.470	15723.528
Max		814.414	36.498	1098.507	20627.578
"		2	2	2	2
3/10/92-3,2-A	3	594.7	1230.2	1426.9	22468.4
3/10/92-3,2-B	3	46.9	1695.3	0.0	37437.4
Average	3	320.885	1462.777	713.461	29952.934
St. Dev.		387.360	328.865	1008.986	10584.689
R.S.D. %		121	22	141	35
Min		46.900	1230.235	0.000	22468.429
Max		594.710	1695.320	1426.922	37437.440
"		2	2	2	2
Average	3	561.4310	740.5112	769.4997	24064.2415
St. Dev.		356.8177	835.4710	627.0957	9358.9058
R.S.D. %		64	116	81	39
Min		46.9006	0.0000	0.0000	15723.5200
Max		814.4138	1695.3200	1426.9218	37437.4400
"		4	4	4	4

Appendix 1: BRH PES 1

BRH PES 1	Dynas/cm ²	Filter #	Am't filtered, g	C, mg	H, mg	N, mg	C, mg/g	H, mg/g	N, mg/g
2/27/92-0.0	0	5							
3/10/92-0.0	0	14	0.0027	0.193	0.067	0.027	71.481	24.815	10.000
Average	0		0.003	0.193	0.067	0.027	71.481	24.815	10.000
St. Dev.			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min			0.003	0.193	0.067	0.027	71.481	24.815	10.000
Max			0.003	0.193	0.067	0.027	71.481	24.815	10.000
n		2	1	1	1	1	1	1	1
3/2/92-2.1-A	2	5	0.0026	0.092	0.055	0.014	35.385	21.154	5.385
3/2/92-2.1-B	2	3	0.0040	0.140	0.096	0.019	35.000	24.000	4.750
Average	2		0.003	0.116	0.076	0.017	35.192	22.577	5.067
St. Dev.			0.001	0.034	0.029	0.004	0.272	2.013	0.449
R.S.D. %			30	29	38	21	1	9	9
Min			0.003	0.092	0.055	0.014	35.385	21.154	4.750
Max			0.004	0.140	0.096	0.019	35.000	24.000	5.385
n			2	2	2	2	2	2	2
3/2/92-2.2-A	2	4	0.0035	0.138	0.063	0.019	39.429	18.000	5.429
3/2/92-2.2-B	2	6	0.0035	0.144	0.069	0.020	41.143	19.714	5.714
Average	2		0.004	0.141	0.066	0.020	40.286	18.857	5.571
St. Dev.			0.000	0.004	0.004	0.001	1.212	1.212	0.202
R.S.D. %			0	3	6	4	3	6	4
Min			0.004	0.138	0.063	0.019	39.429	18.000	5.429
Max			0.004	0.144	0.069	0.020	41.143	19.714	5.714
n			2	2	2	2	2	2	2
3/4/92-2.1-A	2	12	0.0034	0.181	0.064	0.025	53.235	18.824	7.353
3/4/92-2.1-B	2	13	0.0035	0.205	0.069	0.025	58.857	19.714	7.143
Average	2		0.003	0.194	0.067	0.025	56.046	19.269	7.248
St. Dev.			0.000	0.018	0.004	0.000	3.975	0.630	0.149
R.S.D. %			2	9	5	0	7	3	2
Min			0.003	0.181	0.064	0.025	53.235	18.824	7.143
Max			0.004	0.206	0.069	0.025	58.857	19.714	7.353
n			2	2	2	2	2	2	2
Average	2		0.003	0.190	0.069	0.020	43.841	20.234	5.962
St. Dev.			0.000	0.009	0.014	0.004	9.901	2.124	1.047
R.S.D. %			13	26	20	21	23	10	18
Min			0.003	0.182	0.065	0.014	35.000	18.000	4.750
Max			0.004	0.206	0.069	0.025	58.857	24.000	7.353
n			6	6	6	6	6	6	6
3/10/92-3.1-A	3								
3/10/92-3.1-B	3	15	0.0027	0.147	0.058	0.019	54.444	21.481	7.037
Average	3		0.003	0.147	0.058	0.019	54.444	21.481	7.037
St. Dev.			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min			0.003	0.147	0.058	0.019	54.444	21.481	7.037
Max			0.003	0.147	0.058	0.019	54.444	21.481	7.037
n			1	1	1	1	1	1	1
3/10/92-3.2-A	3	16	0.0033	0.220	0.087	0.029	66.667	26.364	8.788
3/10/92-3.2-B	3	17	0.0014	0.137	0.079	0.018	97.857	56.429	12.857
Average	3		0.002	0.179	0.083	0.024	82.262	41.396	10.823
St. Dev.			0.001	0.059	0.006	0.008	22.835	21.259	2.877
R.S.D. %			57	35	7	33	27	51	27
Min			0.001	0.137	0.079	0.018	66.667	26.364	8.788
Max			0.003	0.220	0.087	0.029	97.857	56.429	12.857
n			2	2	2	2	2	2	2
Average	3		0.0025	0.1680	0.0747	0.0220	72.9894	34.7579	9.5607
St. Dev.			0.0010	0.0453	0.0158	0.0061	22.3863	18.9254	2.9860
R.S.D. %			39	27	21	28	31	54	31
Min			0.0014	0.1370	0.0790	0.0180	54.4444	21.4815	7.0370
Max			0.0033	0.2200	0.0870	0.0290	97.8571	56.4286	12.8571
n			3	3	3	3	3	3	3

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	0-2 μ m (10-9 ϕ) (fine clay) %	2-4 μ m (9-8 ϕ) (coarse clay) %	4-62 μ m (8-4 ϕ) (silt) %	62-300 μ m (4-1.75 ϕ) (vfine to med sand) %	sum, %
2/27/92-0.0	0					
3/10/92-0.0	0					
Average	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000
Max		0.000	0.000	0.000	0.000	0.000
n		0	0	0	0	0
3/2/92-2.1-A	2					
3/2/92-2.1-B	2	0.00	3.00	81.15	15.85	100.00
Average	2	0.000	3.000	81.150	15.850	100.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	3.000	81.150	15.850	100.000
Max		0.000	3.000	81.150	15.850	100.000
n		1	1	1	1	1
3/2/92-2.2-A	2					
3/2/92-2.2-B	2	0.00	7.51	89.56	2.93	100.00
Average	2	0.000	7.510	89.560	2.930	100.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	7.510	89.560	2.930	100.000
Max		0.000	7.510	89.560	2.930	100.000
n		1	1	1	1	1
3/4/92-2.1-A	2					
3/4/92-2.1-B	2	0.00	5.99	85.52	8.50	100.01
Average	2	0.000	5.990	85.520	8.500	100.010
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	5.990	85.520	8.500	100.010
Max		0.000	5.990	85.520	8.500	100.010
n		1	1	1	1	1
Average	2	0.000	5.500	85.410	9.093	100.003
St. Dev.		0.900	2.295	4.206	6.480	0.006
R.S.D. %		#DIV/0!	42	5	71	0
Min		0.000	3.000	81.150	2.930	100.000
Max		0.000	7.510	89.560	15.850	100.010
n		3	3	3	3	3
3/10/92-3.1-A	3					
3/10/92-3.1-B	3	0.00	4.93	82.69	12.37	99.99
Average	3	0.000	4.930	82.690	12.370	99.990
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	4.930	82.690	12.370	99.990
Max		0.000	4.930	82.690	12.370	99.990
n		1	1	1	1	1
3/10/92-3.2-A	3					
3/10/92-3.2-B	3	0.00	3.26	76.57	20.17	100.00
Average	3	0.000	3.260	76.570	20.170	100.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	3.260	76.570	20.170	100.000
Max		0.000	3.260	76.570	20.170	100.000
n		1	1	1	1	1
Average	3	0.0000	4.0950	79.6300	16.2700	99.9950
St. Dev.		0.0000	1.1809	4.3275	5.5154	0.0071
R.S.D. %		#DIV/0!	29	5	34	0
Min		0.0000	3.2600	76.5700	12.3700	99.9900
Max		0.0000	4.9300	82.6900	20.1700	100.0000
n		2	2	2	2	2

BRH PES 1	Dynes/cm ²	Mode	μm Median	μm Can (vm)	$\mu s.D.$ (vm)	μm Conf (vm), %
2/27/92-0.0	0					
3/10/92-0.0	0					
Average	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000
Max		0.000	0.000	0.000	0.000	0.000
n		0	0	0	0	0
3/2/92-2.1-A	2					
3/2/92-2.1-B	2	27.79	22.76	37.16	41.09	99.99
Average	2	27.790	22.760	37.160	41.090	99.990
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		27.790	22.760	37.160	41.090	99.990
Max		27.790	22.760	37.160	41.090	99.990
n		1	1	1	1	1
3/2/92-2.2-A	2					
3/2/92-2.2-B	2	10.50	11.92	17.21	15.48	100.00
Average	2	10.500	11.920	17.210	15.480	100.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		10.500	11.920	17.210	15.480	100.000
Max		10.500	11.920	17.210	15.480	100.000
n		1	1	1	1	1
3/4/92-2.1-A	2					
3/4/92-2.1-B	2	10.50	13.65	23.09	25.68	99.99
Average	2	10.500	13.650	23.090	25.680	99.990
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		10.500	13.650	23.090	25.680	99.990
Max		10.500	13.650	23.090	25.680	99.990
n		1	1	1	1	1
Average	2	16.263	16.110	25.820	27.417	99.993
St. Dev.		9.982	5.824	10.251	12.893	0.006
R.S.D. %		61	36	40	47	0
Min		10.500	11.920	17.210	15.480	99.990
Max		27.790	22.760	37.160	41.090	100.000
n		3	3	3	3	3
3/10/92-3.1-A	3					
3/10/92-3.1-B	3	7.50	14.86	29.43	36.16	99.75
Average	3	7.500	14.860	29.430	36.160	99.750
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		7.500	14.860	29.430	36.160	99.750
Max		7.500	14.860	29.430	36.160	99.750
n		1	1	1	1	1
3/10/92-3.2-A	3					
3/10/92-3.2-B	3	35.70	23.12	39.78	42.70	99.99
Average	3	35.700	23.120	39.780	42.700	99.990
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		35.700	23.120	39.780	42.700	99.990
Max		35.700	23.120	39.780	42.700	99.990
n		1	1	1	1	1
Average	3	21.6000	18.9900	34.6050	39.4300	99.8700
St. Dev.		19.9404	5.8407	7.3186	4.6245	0.1697
R.S.D. %		92	31	21	12	0
Min		7.5000	14.8600	29.4300	36.1600	99.7500
Max		35.7000	23.1200	39.7800	42.7000	99.9900
n		2	2	2	2	2

BRH PES 1	Dynes/cm ²	CB008, ng	CB018, ng	CB029, ng	CB050, ng	CB028, ng	CB052, ng	CB104, ng
2/27/92-0.0	0	0.21	0.00	0.00	0.16	0.00	0.00	0.00
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	0.106	0.000	0.000	0.081	0.000	0.000	0.000
St. Dev.		0.150	0.000	0.000	0.114	0.000	0.000	0.000
R.S.D.%		141	#DIV/0!	#DIV/0!	141	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		0.212	0.000	0.000	0.161	0.000	0.000	0.000
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	0.29	0.35	0.00	1.10	0.92	0.54	0.00
3/2/92-2.1-B	2	0.74	1.17	0.00	0.40	2.16	0.29	0.00
Average	2	0.515	0.759	0.000	0.749	1.537	0.413	0.000
St. Dev.		0.324	0.584	0.000	0.500	0.876	0.177	0.000
R.S.D.%		63	77	#DIV/0!	67	57	43	#DIV/0!
Min		0.286	0.346	0.000	0.395	0.917	0.288	0.000
Max		0.744	1.172	0.000	1.102	2.157	0.539	0.000
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.03	0.00	0.00	1.63	1.07	0.41	0.00
3/2/92-2.2-B	2	0.08	0.00	0.00	0.94	0.75	0.31	0.00
Average	2	0.053	0.000	0.000	1.283	0.909	0.360	0.000
St. Dev.		0.038	0.000	0.000	0.484	0.225	0.068	0.000
R.S.D.%		72	#DIV/0!	#DIV/0!	38	25	19	#DIV/0!
Min		0.026	0.000	0.000	0.941	0.750	0.312	0.000
Max		0.080	0.000	0.000	1.626	1.069	0.408	0.000
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	0.63	0.38	0.00	1.00	1.08	1.92	0.00
3/4/92-2.1-B	2	0.15	0.03	0.00	1.90	1.34	0.48	0.05
Average	2	0.391	0.208	0.000	1.453	1.212	1.199	0.026
St. Dev.		0.338	0.256	0.000	0.635	0.187	1.022	0.036
R.S.D.%		87	120	#DIV/0!	44	15	85	141
Min		0.152	0.032	0.000	1.004	1.080	0.476	0.000
Max		0.630	0.385	0.000	1.901	1.345	1.922	0.051
n		2	2	2	2	2	2	2
Average	2	0.319	0.322	0.000	1.162	1.220	0.658	0.009
St. Dev.		0.300	0.452	0.000	0.534	0.500	0.627	0.021
R.S.D.%		94	140	#DIV/0!	46	41	95	245
Min		0.00	0.000	0.000	0.395	0.750	0.288	0.000
Max		0.44	1.172	0.000	1.901	2.157	1.922	0.051
n		6	6	6	6	6	6	6
3/10/92-3.1-	3	0.00	0.00	0.00	1.69	1.54	0.93	0.00
3/10/92-3.1-L	3	0.01	0.00	0.00	1.36	1.24	0.70	0.00
Average	3	0.005	0.000	0.000	1.529	1.390	0.814	0.000
St. Dev.		0.007	0.006	0.000	0.233	0.213	0.159	0.000
R.S.D.%		141	141	#DIV/0!	15	15	20	#DIV/0!
Min		0.000	0.000	0.000	1.364	1.239	0.702	0.000
Max		0.010	0.000	0.000	1.693	1.541	0.926	0.000
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	0.00	0.00	0.00	2.10	1.51	0.82	0.00
3/10/92-3.2-B	3	0.00	0.00	0.00	1.65	1.07	0.55	0.00
Average	3	0.000	0.000	0.000	1.870	1.293	0.687	0.000
St. Dev.		0.000	0.000	0.000	0.318	0.310	0.193	0.000
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	17	24	28	#DIV/0!
Min		0.000	0.000	0.000	1.645	1.074	0.550	0.000
Max		0.000	0.000	0.000	2.095	1.512	0.823	0.000
n		2	2	2	2	2	2	2
Average	3	0.0025	0.0001	0.0000	1.6994	1.3416	0.7504	0.0000
St. Dev.		0.0051	0.0002	0.0000	0.3012	0.2245	0.1619	0.0000
R.S.D.%		200	200	#DIV/0!	18	17	22	#DIV/0!
Min		0.0000	0.0000	0.0000	1.3639	1.0736	0.5503	0.0000
Max		0.0102	0.0004	0.0000	2.0953	1.5411	0.9262	0.0000
n		4	4	4	4	4	4	4

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	CB044, ng	CB066, ng	CB101, ng	CB067, ng	CB077, ng	CB154, ng	CB118, ng
2/27/92-0.0	0	0.00	0.56	0.33	0.13	0.71	0.00	0.81
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.11	0.00
Average	0	0.000	0.280	0.164	0.065	0.354	0.053	0.406
St. Dev.		0.000	0.396	0.233	0.091	0.501	0.075	0.574
R.S.D.%		#DIV/0!	141	141	141	141	141	141
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		0.000	0.559	0.332	0.129	0.709	0.106	0.812
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	0.00	3.72	1.61	0.47	2.66	1.42	2.55
3/2/92-2.1-B	2	0.26	1.22	3.05	0.77	3.87	2.01	3.96
Average	2	0.129	0.965	2.333	0.624	3.267	1.715	3.255
St. Dev.		0.183	0.335	1.020	0.212	0.857	0.420	0.990
R.S.D.%		141	37	44	34	26	24	30
Min		0.000	0.717	1.612	0.475	2.661	1.418	2.554
Max		0.259	1.219	3.054	0.774	3.874	2.012	3.955
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.00	0.48	1.63	0.27	1.84	1.06	2.30
3/2/92-2.2-B	2	0.00	0.75	1.71	0.23	1.78	0.99	2.47
Average	2	0.000	0.615	1.673	0.250	1.812	1.022	2.381
St. Dev.		0.000	0.194	0.059	0.031	0.046	0.056	0.123
R.S.D.%		#DIV/0!	31	4	12	3	5	5
Min		0.000	0.478	1.631	0.229	1.780	0.987	2.296
Max		0.000	0.752	1.714	0.272	1.844	1.057	2.467
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	1.03	1.66	3.92	1.90	5.38	0.00	2.09
3/4/92-2.1-B	2	0.00	1.02	2.26	0.54	2.39	1.27	3.08
Average	2	0.513	1.343	3.091	1.219	3.889	0.637	2.782
St. Dev.		0.725	0.451	1.180	0.961	2.113	0.901	0.985
R.S.D.%		141	34	38	79	54	141	35
Min		0.000	1.024	2.256	0.540	2.395	0.000	2.085
Max		1.026	1.661	3.925	1.899	5.383	1.274	3.478
n		2	2	2	2	2	2	2
Average	2	0.214	0.975	2.365	0.698	2.987	1.125	2.806
St. Dev.		0.411	0.424	0.943	0.621	1.396	0.661	0.739
R.S.D.%		192	43	40	89	47	59	26
Min		0.000	0.478	1.612	0.229	1.780	0.000	2.085
Max		1.026	1.661	3.925	1.899	5.383	2.012	3.955
n		6	6	6	6	6	6	6
3/10/92-3.1-A	3	0.00	1.45	3.38	0.74	3.48	1.82	4.89
3/10/92-3.1-B	3	0.00	0.93	2.46	0.63	2.70	1.42	3.70
Average	3	0.000	1.186	2.920	0.667	3.088	1.619	4.292
St. Dev.		0.000	0.369	0.647	0.074	0.548	0.279	0.842
R.S.D.%		#DIV/0!	31	22	11	18	17	20
Min		0.000	0.926	2.462	0.635	2.700	1.422	3.696
Max		0.000	1.447	3.378	0.734	3.476	1.817	4.887
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	0.00	1.40	3.10	0.84	3.37	1.75	4.41
3/10/92-3.2-B	3	0.00	1.00	2.29	0.58	2.37	1.28	3.56
Average	3	0.000	1.200	2.699	0.710	2.871	1.512	3.981
St. Dev.		0.000	0.282	0.574	0.184	0.711	0.334	0.602
R.S.D.%		#DIV/0!	23	21	26	25	22	15
Min		0.000	1.000	2.292	0.579	2.368	1.276	3.555
Max		0.000	1.399	3.110	0.840	3.374	1.748	4.407
n		2	2	2	2	2	2	2
Average	3	0.0000	1.1930	2.8093	0.6585	2.9794	1.5655	4.1365
St. Dev.		0.0000	0.2682	0.5158	0.1155	0.5335	0.2589	0.6242
R.S.D.%		#DIV/0!	22	18	17	18	17	15
Min		0.0000	0.9255	2.2925	0.5795	2.3675	1.2756	3.5554
Max		0.0000	1.4472	3.3778	0.8404	3.4759	1.8169	4.8873
n		4	4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB104, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng	CB187, ng	CB128, ng
2/27/92-0.0	0	0.14	0.30	0.24	0.00	0.10	0.06	0.01
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	0.070	0.152	0.122	0.000	0.048	0.030	0.003
St. Dev.		0.098	0.215	0.173	0.000	0.068	0.042	0.004
R.S.D.%		141	141	141	#DIV/0!	147	141	141
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		0.139	0.304	0.244	0.000	0.097	0.060	0.003
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	0.00	0.96	1.19	1.57	0.26	0.18	0.39
3/2/92-2.1-B	2	0.00	1.90	1.68	2.92	0.22	0.31	0.50
Average	2	0.000	1.431	1.434	2.245	0.238	0.245	0.442
St. Dev.		0.000	0.666	0.351	0.958	0.032	0.087	0.076
R.S.D.%		#DIV/0!	47	24	43	13	36	17
Min		0.000	0.960	1.183	1.567	0.216	0.183	0.388
Max		0.000	1.902	1.682	2.922	0.260	0.307	0.496
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.00	0.81	0.62	1.18	0.12	0.01	0.16
3/2/92-2.2-B	2	0.32	1.02	0.69	1.39	0.20	0.15	0.18
Average	2	0.162	0.913	0.656	1.282	0.160	0.078	0.174
St. Dev.		0.229	0.147	0.045	0.148	0.059	0.100	0.015
R.S.D.%		141	16	7	12	37	128	9
Min		0.000	0.810	0.624	1.177	0.118	0.007	0.163
Max		0.324	1.017	0.688	1.387	0.202	0.148	0.185
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	0.63	2.80	2.97	4.48	0.45	0.59	0.78
3/4/92-2.1-B	2	0.42	1.66	0.91	2.07	0.19	0.30	0.25
Average	2	0.529	2.230	1.939	3.279	0.317	0.443	0.513
St. Dev.		0.149	0.804	1.454	1.705	0.185	0.207	0.372
R.S.D.%		28	36	75	52	58	47	73
Min		0.423	1.661	0.910	2.074	0.186	0.297	0.250
Max		0.634	2.798	2.967	4.484	0.447	0.589	0.776
n		2	2	2	2	2	2	2
Average	2	0.230	1.525	1.343	2.269	0.238	0.255	0.376
St. Dev.		0.271	0.758	0.884	1.252	0.112	0.197	0.233
R.S.D.%		118	50	66	55	47	77	62
Min		0.000	0.810	0.624	1.177	0.118	0.007	0.163
Max		0.634	2.798	2.967	4.484	0.447	0.589	0.776
n		6	6	6	6	6	6	6
3/10/92-3.1-A	3	0.60	2.46	1.60	2.95	0.21	0.45	0.42
3/10/92-3.1-B	3	0.46	1.77	1.08	2.06	0.17	0.25	0.31
Average	3	0.530	2.115	1.340	2.508	0.192	0.350	0.366
St. Dev.		0.103	0.493	0.362	0.628	0.026	0.135	0.082
R.S.D.%		19	23	27	25	14	39	22
Min		0.457	1.766	1.084	2.064	0.174	0.255	0.308
Max		0.603	2.463	1.596	2.953	0.211	0.446	0.425
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	0.58	2.13	1.38	2.84	0.32	0.48	0.46
3/10/92-3.2-B	3	0.50	1.75	0.80	2.06	0.14	0.48	0.41
Average	3	0.535	1.940	1.094	2.449	0.234	0.481	0.439
St. Dev.		0.057	0.267	0.410	0.551	0.129	0.004	0.034
R.S.D.%		11	14	38	23	55	1	8
Min		0.495	1.751	0.804	2.059	0.142	0.478	0.414
Max		0.575	2.128	1.384	2.838	0.325	0.484	0.463
n		2	2	2	2	2	2	2
Average	3	0.5325	2.0272	1.2170	2.4785	0.2129	0.4158	0.4025
St. Dev.		0.0680	0.3391	0.3464	0.4839	0.0796	0.1088	0.0663
R.S.D.%		13	17	28	20	37	26	16
Min		0.4569	1.7511	0.8036	2.0587	0.1424	0.2545	0.3082
Max		0.6027	2.4633	1.5961	2.9527	0.3247	0.4843	0.4629
n		4	4	4	4	4	4	4

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	CB200, ng	CB180, ng	CB170, ng	CB195, ng	CB206, ng	CB209, ng	CB sum, ng
2/27/92-0.0	0	0.00	0.16	0.00	0.18	0.17	0.11	4.39
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Average	0	0.000	0.081	0.000	0.089	0.087	0.035	2.247
St. Dev.		0.000	0.115	0.000	0.126	0.123	0.077	3.028
R.S.D. %		#DIV/0!	141	#DIV/0!	141	141	141	135
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.106
Max		0.000	0.162	0.000	0.178	0.174	0.110	4.388
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	0.00	0.53	0.00	0.00	0.00	0.18	17.89
3/2/92-2.1-B	2	0.00	0.77	0.22	0.00	0.30	1.52	30.24
Average	2	0.000	0.655	0.109	0.000	0.149	0.851	24.063
St. Dev.		0.000	0.170	0.154	0.000	0.210	0.949	8.736
R.S.D. %		#DIV/0!	26	141	#DIV/0!	141	112	36
Min		0.000	0.535	0.000	0.000	0.000	0.180	17.536
Max		0.000	0.775	0.218	0.000	0.297	1.522	30.240
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.00	0.42	0.00	0.00	0.00	0.01	14.04
3/2/92-2.2-B	2	0.00	0.47	0.00	0.00	0.00	0.10	14.53
Average	2	0.000	0.446	0.000	0.000	0.000	0.035	14.284
St. Dev.		0.000	0.038	0.000	0.000	0.000	0.059	0.349
R.S.D. %		#DIV/0!	9	#DIV/0!	#DIV/0!	#DIV/0!	109	2
Min		0.000	0.419	0.000	0.000	0.000	0.013	14.038
Max		0.000	0.473	0.000	0.000	0.000	0.097	14.531
n		2	2	2	2	2	2	2
3/4/93-2.1-A	2	0.36	1.20	1.49	0.07	0.19	0.37	37.38
3/4/92-2.1-B	2	0.00	0.68	0.00	0.00	0.00	0.19	21.60
Average	2	0.179	0.944	0.746	0.035	0.093	0.282	29.489
St. Dev.		0.254	0.368	1.055	0.050	0.131	0.129	11.160
R.S.D. %		141	39	141	141	141	46	38
Min		0.000	0.683	0.000	0.000	0.000	0.191	21.598
Max		0.359	1.204	1.492	0.071	0.186	0.373	37.380
n		2	2	2	2	2	2	2
Average	2	0.060	0.681	0.285	0.012	0.081	0.396	22.612
St. Dev.		0.147	0.284	0.598	0.029	0.130	0.565	9.365
R.S.D. %		245	42	210	245	161	143	41
Min		0.000	0.419	0.000	0.000	0.000	0.013	14.038
Max		0.359	1.204	1.492	0.071	0.297	1.522	37.380
n		6	6	6	6	6	6	6
3/10/92-3.1-A	3	0.00	1.00	0.15	0.02	0.00	0.14	29.92
3/10/92-3.1-B	3	0.00	0.73	0.00	0.00	0.00	0.16	22.15
Average	3	0.000	0.862	0.074	0.012	0.000	0.153	26.035
St. Dev.		0.000	0.193	0.105	0.017	0.000	0.011	5.492
R.S.D. %		#DIV/0!	22	141	141	#DIV/0!	7	21
Min		0.000	0.726	0.000	0.000	0.000	0.145	22.151
Max		0.000	0.999	0.149	0.024	0.000	0.161	29.918
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	0.00	0.81	0.05	0.00	0.00	0.07	28.42
3/10/92-3.2-B	3	0.00	0.77	0.00	0.25	0.00	0.00	21.59
Average	3	0.000	0.788	0.067	0.124	0.000	0.035	25.006
St. Dev.		0.000	0.033	0.027	0.175	0.000	0.047	4.831
R.S.D. %		#DIV/0!	4	40	141	#DIV/0!	136	19
Min		0.000	0.765	0.048	0.000	0.000	0.001	21.590
Max		0.000	0.811	0.085	0.248	0.000	0.068	28.422
n		2	2	2	2	2	2	2
Average	3	0.0000	0.8254	0.0705	0.0681	0.0000	0.0938	25.5204
St. Dev.		0.0000	0.1208	0.0628	0.1206	0.0000	0.0738	4.2648
R.S.D. %		#DIV/0!	15	89	177	#DIV/0!	79	17
Min		0.0000	0.7260	0.0000	0.0000	0.0000	0.0014	21.5898
Max		0.0000	0.9969	0.1488	0.2481	0.0000	0.1609	29.9183
n		4	4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	Σ PCB, ng
2/27/92-0,0	0	#REF!
3/10/92-0,0	0	#REF!
Average	0	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
3/2/92-2,1-A	2	#REF!
3/2/92-2,1-B	2	#REF!
Average	2	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
3/2/92-2,2-A	2	#REF!
3/2/92-2,2-B	2	#REF!
Average	2	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
3/4/92-2,1-A	2	#REF!
3/4/92-2,1-B	2	#REF!
Average	2	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
Average	2	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
3/10/92-3,1-A	3	#REF!
3/10/92-3,1-B	3	#REF!
Average	3	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
3/10/92-3,2-A	3	#REF!
3/10/92-3,2-B	3	#REF!
Average	3	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0
Average	3	#REF!
St. Dev.		#REF!
R.S.D.%		#REF!
Min		#REF!
Max		#REF!
n		0

BRH PES 1	Dynes/cm^2	HCB, ng	g-HCH, ng	HEPT, ng	ALDRIN, ng	HEPT E, ng	OP'DDE, ng	A-CHLDA, ng
2/27/92-0.0	0	NA	NA	NA	NA	NA	NA	NA
3/10/92-0.0	0	0.03	#REF!	0.00	0.00	#REF!	0.00	#REF!
Average	0	0.032	#REF!	0.000	0.000	#REF!	0.000	#REF!
St. Dev.		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!	#REF!
R.S.D. %		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!	#REF!
Min		0.032	#REF!	0.000	0.000	#REF!	0.000	#REF!
Max		0.032	#REF!	0.000	0.000	#REF!	0.000	#REF!
n		1	0	1	1	0	1	0
3/2/92-2.1-A	2	0.25	#REF!	0.14	0.00	#REF!	0.00	#REF!
3/2/92-2.1-B	2	0.19	#REF!	0.17	0.00	#REF!	1.18	#REF!
Average	2	0.223	#REF!	0.150	0.000	#REF!	0.592	#REF!
St. Dev.		0.041	#REF!	0.021	0.000	#REF!	0.137	#REF!
R.S.D. %		19	#REF!	14	#DIV/0!	#REF!	141	#REF!
Min		0.194	#REF!	0.135	0.000	#REF!	0.000	#REF!
Max		0.252	#REF!	0.165	0.000	#REF!	1.183	#REF!
n		2	0	2	2	0	2	0
3/2/92-2.2-A	2	0.75	#REF!	0.00	0.00	#REF!	0.00	#REF!
3/2/92-2.2-B	2	0.09	#REF!	0.00	0.00	#REF!	0.34	#REF!
Average	2	0.418	#REF!	0.000	0.000	#REF!	0.169	#REF!
St. Dev.		0.463	#REF!	0.000	0.000	#REF!	0.240	#REF!
R.S.D. %		111	#REF!	#DIV/0!	#DIV/0!	#REF!	141	#REF!
Min		0.091	#REF!	0.000	0.000	#REF!	0.000	#REF!
Max		0.745	#REF!	0.000	0.000	#REF!	0.339	#REF!
n		2	0	2	2	0	2	0
3/4/92-2.1-A	2	NA	NA	NA	NA	NA	NA	NA
3/4/92-2.1-B	2	0.18	#REF!	0.00	0.00	#REF!	0.00	#REF!
Average	2	0.177	#REF!	0.000	0.000	#REF!	0.000	#REF!
St. Dev.		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!	#REF!
R.S.D. %		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!	#REF!
Min		0.177	#REF!	0.000	0.000	#REF!	0.000	#REF!
Max		0.177	#REF!	0.000	0.000	#REF!	0.000	#REF!
n		1	0	1	1	0	1	0
Average	2	0.292	#REF!	0.060	0.000	#REF!	0.304	#REF!
St. Dev.		0.260	#REF!	0.003	0.000	#REF!	0.513	#REF!
R.S.D. %		89	#REF!	138	#DIV/0!	#REF!	168	#REF!
Min		0.091	#REF!	0.000	0.000	#REF!	0.000	#REF!
Max		0.745	#REF!	0.165	0.000	#REF!	1.183	#REF!
n		5	0	5	5	0	5	0
3/10/92-3.1-A	3	0.03	#REF!	0.00	0.00	#REF!	0.62	#REF!
3/10/92-3.1-B	3	0.13	#REF!	0.00	0.00	#REF!	0.45	#REF!
Average	3	0.102	#REF!	0.000	0.000	#REF!	0.535	#REF!
St. Dev.		0.035	#REF!	0.000	0.000	#REF!	0.117	#REF!
R.S.D. %		34	#REF!	#DIV/0!	#DIV/0!	#REF!	22	#REF!
Min		0.077	#REF!	0.000	0.000	#REF!	0.452	#REF!
Max		0.127	#REF!	0.000	0.000	#REF!	0.618	#REF!
n		2	0	2	2	0	2	0
3/10/92-3.2-A	3	0.12	#REF!	0.00	0.00	#REF!	0.46	#REF!
3/10/92-3.2-B	3	0.12	#REF!	0.00	0.00	#REF!	0.36	#REF!
Average	3	0.122	#REF!	0.000	0.000	#REF!	0.410	#REF!
St. Dev.		0.004	#REF!	0.000	0.000	#REF!	0.072	#REF!
R.S.D. %		3	#REF!	#DIV/0!	#DIV/0!	#REF!	17	#REF!
Min		0.120	#REF!	0.000	0.000	#REF!	0.359	#REF!
Max		0.125	#REF!	0.000	0.000	#REF!	0.461	#REF!
n		2	0	2	2	0	2	0
Average	3	0.1122	#REF!	0.0000	0.0000	#REF!	0.4724	#REF!
St. Dev.		0.0234	#REF!	0.0000	0.0000	#REF!	0.1073	#REF!
R.S.D. %		21	#REF!	#DIV/0!	#DIV/0!	#REF!	23	#REF!
Min		0.0774	#REF!	0.0000	0.0000	#REF!	0.3593	#REF!
Max		0.1272	#REF!	0.0000	0.0000	#REF!	0.6179	#REF!
n		4	0	4	4	0	4	0

BRH PES 1	Dynes/cm ²	TRANSNON, ug	DELDRLN, ng	PT'DDE, ng	OP'DGD, ng	PT'DDD, ng	OP'DDT, ng
2/27/92-0.0	0	NA	NA	NA	NA	NA	NA
3/10/92-0.0	0	#REF!	0.00	0.05	0.00	0.00	0.00
Average	0	#REF!	0.000	0.054	0.000	0.000	0.000
St. Dev.		#REF!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#REF!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		#REF!	0.000	0.054	0.000	0.000	0.000
Max		#REF!	0.000	0.054	0.000	0.000	0.000
n		0	1	1	1	1	1
3/2/92-2.1-A	2	#REF!	NA	1.37	0.94	2.56	0.51
3/2/92-2.1-B	2	#REF!	NA	1.59	1.33	0.00	0.00
Average	2	#REF!	#DIV/0!	1.479	1.133	1.280	0.253
St. Dev.		#REF!	#DIV/0!	0.154	0.277	1.810	0.356
R.S.D. %		#REF!	#DIV/0!	10	24	141	141
Min		#REF!	0.000	1.371	0.937	0.000	0.000
Max		#REF!	0.000	1.588	1.329	2.559	0.504
n		0	0	2	2	2	2
3/2/92-2.2-A	2	#REF!	0.32	0.78	1.72	0.00	0.00
3/2/92-2.2-B	2	#REF!	NA	0.68	0.65	0.23	0.00
Average	2	#REF!	0.321	0.730	1.185	0.116	0.000
St. Dev.		#REF!	#DIV/0!	0.070	0.754	0.165	0.000
R.S.D. %		#REF!	#DIV/0!	10	64	141	#DIV/0!
Min		#REF!	0.321	0.481	0.652	0.000	0.000
Max		#REF!	0.321	0.779	1.719	0.233	0.000
n		0	1	2	2	2	2
3/4/92-2.1-A	2	NA	NA	NA	NA	NA	NA
3/4/92-2.1-B	2	#REF!	NA	0.00	0.84	0.34	0.22
Average	2	#REF!	#DIV/0!	0.000	0.843	0.341	0.220
St. Dev.		#REF!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#REF!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		#REF!	0.000	0.000	0.843	0.341	0.220
Max		#REF!	0.000	0.000	0.843	0.341	0.220
n		0	0	1	1	1	1
Average	2	#REF!	0.321	0.884	1.096	0.627	0.145
St. Dev.		#REF!	#DIV/0!	0.620	0.427	1.091	0.223
R.S.D. %		#REF!	#DIV/0!	71	39	174	154
Min		#REF!	0.321	0.000	0.652	0.000	0.000
Max		#REF!	0.321	1.588	1.719	2.559	0.504
n		0	1	5	5	5	5
3/10/92-3.1-A	3	#REF!	NA	1.36	1.20	0.00	0.00
3/10/92-3.1-B	3	#REF!	NA	1.10	0.94	0.31	0.00
Average	3	#REF!	#DIV/0!	1.231	1.071	0.157	0.000
St. Dev.		#REF!	#DIV/0!	0.181	0.184	0.231	0.000
R.S.D. %		#REF!	#DIV/0!	15	17	141	#DIV/0!
Min		#REF!	0.000	1.103	0.941	0.000	0.000
Max		#REF!	0.000	1.359	1.201	0.313	0.000
n		0	0	2	2	2	2
3/10/92-3.2-A	3	#REF!	NA	1.30	1.16	0.15	0.33
3/10/92-3.2-B	3	#REF!	NA	0.28	0.84	0.25	0.23
Average	3	#REF!	#DIV/0!	0.790	1.000	0.202	0.280
St. Dev.		#REF!	#DIV/0!	0.715	0.221	0.070	0.065
R.S.D. %		#REF!	#DIV/0!	90	22	35	23
Min		#REF!	0.000	0.285	0.844	0.152	0.235
Max		#REF!	0.000	1.296	1.157	0.252	0.326
n		0	0	2	2	2	2
Average	3	#REF!	#DIV/0!	1.0107	1.0355	0.1793	0.1402
St. Dev.		#REF!	#DIV/0!	0.4962	0.1708	0.1367	0.1662
R.S.D. %		#REF!	#DIV/0!	49	16	76	119
Min		#REF!	0.0000	0.2845	0.8439	0.0000	0.0000
Max		#REF!	0.0000	1.3593	1.2005	0.3132	0.3262
n		0	0	4	4	4	4

BRH PES 1	Dynes/cm ²	PP'DDT, ng	MIRLX, ug
2/27/92-0,0	0	NA	NA
3/10/92-0,0	0	#REF!	0.00
Average	0	#REF!	0.000
St. Dev.		#REF!	#DIV/0!
R.S.D.%		#REF!	#DIV/0!
Min		#REF!	0.000
Max		#REF!	0.000
n		0	1
3/2/92-2,1-A	2	#REF!	0.03
3/2/92-2,1-B	2	#REF!	0.00
Average	2	#REF!	0.015
St. Dev.		#REF!	0.021
R.S.D.%		#REF!	141
Min		#REF!	0.000
Max		#REF!	0.030
n		0	2
3/2/92-2,2-A	2	#REF!	0.00
3/2/92-2,2-B	2	#REF!	0.16
Average	2	#REF!	0.081
St. Dev.		#REF!	0.115
R.S.D.%		#REF!	141
Min		#REF!	0.000
Max		#REF!	0.163
n		0	2
3/4/92-2,1-A	2	NA	NA
3/4/92-2,1-B	2	#REF!	0.03
Average	2	#REF!	0.031
St. Dev.		#REF!	#DIV/0!
R.S.D.%		#REF!	#DIV/0!
Min		#REF!	0.031
Max		#REF!	0.031
n		0	1
Average	2	#REF!	0.045
St. Dev.		#REF!	0.045
R.S.D.%		#REF!	152
Min		#REF!	0.000
Max		#REF!	0.163
n		0	5
3/10/92-3,1-A	3	#REF!	0.00
3/10/92-3,1-B	3	#REF!	0.00
Average	3	#REF!	0.000
St. Dev.		#REF!	0.000
R.S.D.%		#REF!	#DIV/0!
Min		#REF!	0.000
Max		#REF!	0.000
n		0	2
3/10/92-3,2-A	3	#REF!	0.33
3/10/92-3,2-B	3	#REF!	0.89
Average	3	#REF!	0.614
St. Dev.		#REF!	0.396
R.S.D.%		#REF!	64
Min		#REF!	0.335
Max		#REF!	0.894
n		0	2
Average	3	#REF!	0.3072
St. Dev.		#REF!	0.4218
R.S.D.%		#REF!	137
Min		#REF!	0.0000
Max		#REF!	0.8940
n		0	4

BHIPES 1	Dynes/cm ²	NAP, ng	2MN, ng	1MN, ng	BIP, ng	DMN, ng	ACL, ng	ACT, ng	TMN, ng	FLU, ng
2/27/92-0.0	0	0.00	0.00	0.00	20.87	2.54	0.00	0.00	8.47	1.06
3/10/92-0.0	0	42.23	12.42	13.13	0.00	23.41	0.00	0.00	13.99	0.00
Average	0	21.11	6.210	6.563	10.433	12.975	0.000	0.000	11.228	0.530
St. Dev.		29.962	8.782	9.282	14.753	14.754	0.000	0.000	3.902	0.750
R.S.D.%		141	141	141	141	114	#DIV/0!	#DIV/0!	35	141
Min		0.000	0.000	0.000	0.000	2.542	0.000	0.000	8.459	0.000
Max		42.231	12.420	13.126	20.867	23.407	0.000	0.000	13.988	1.060
n		2	2	2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	34.55	13.10	6.36	0.00	22.40	2.73	0.00	64.91	1.84
Average	2	34.549	13.103	6.362	0.000	22.399	2.727	0.000	64.910	1.843
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		34.549	13.103	6.362	0.000	22.399	2.727	0.000	64.910	1.843
Max		34.549	13.103	6.362	0.000	22.399	2.727	0.000	64.910	1.843
n		1	1	1	1	1	1	1	1	1
3/2/92-2.2-A	2	14.37	0.00	0.00	2.26	6.10	0.00	0.00	0.00	8.12
3/2/92-2.2-B	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	2	7.186	0.000	0.000	1.131	3.049	0.000	0.000	0.000	4.060
St. Dev.		10.163	0.000	0.000	1.599	4.312	0.000	0.000	0.000	5.742
R.S.D.%		141	#DIV/0!	#DIV/0!	141	141	#DIV/0!	#DIV/0!	#DIV/0!	141
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		14.373	0.000	0.000	2.262	6.098	0.000	0.000	0.000	8.120
n		2	2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	16.34	59.95	18.16	95.65	100.90	79.70	36.10	115.30	3.60
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	16.340	59.950	18.160	95.650	100.900	79.700	36.100	115.300	3.600
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		16.340	59.950	18.160	95.650	100.900	79.700	36.100	115.300	3.600
Max		16.340	59.950	18.160	95.650	100.900	79.700	36.100	115.300	3.600
n		1	1	1	1	1	1	1	1	1
Average	2	16.315	18.263	6.130	24.478	32.349	28.607	9.025	45.053	3.391
St. Dev.		14.171	21.469	8.562	47.460	46.668	39.416	18.050	55.942	3.479
R.S.D.%		87	156	140	194	144	191	200	124	103
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		34.549	59.950	18.160	95.650	100.900	79.700	36.100	115.300	8.120
n		4	4	4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	35.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
Average	3	35.774	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.768
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		35.774	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.768
Max		35.774	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.768
n		1	1	1	1	1	1	1	1	1
3/10/92-3.2-A	3	64.18	0.00	0.00	0.47	4.32	0.00	0.00	0.00	0.00
3/10/92-3.2-B	3	178.34	0.00	0.00	0.00	2.12	0.00	0.00	8.17	2.26
Average	3	121.260	0.000	0.000	0.237	3.223	0.000	0.000	4.086	1.130
St. Dev.		80.719	0.000	0.000	0.338	1.553	0.000	0.000	5.779	1.598
R.S.D.%		67	#DIV/0!	#DIV/0!	141	48	#DIV/0!	#DIV/0!	141	141
Min		64.184	0.000	0.000	0.000	2.125	0.000	0.000	0.000	0.000
Max		178.337	0.000	0.000	0.474	4.321	0.000	0.000	8.172	2.260
n		2	2	2	2	2	2	2	2	2
Average	3	92.7648	0.0000	0.0000	0.1578	2.1485	0.0000	0.0000	2.7241	1.0093
St. Dev.		75.4568	0.0000	0.0000	0.2734	2.1605	0.0000	0.0000	4.7183	1.1493
R.S.D.%		81	#DIV/0!	#DIV/0!	173	101	#DIV/0!	#DIV/0!	173	114
Min		35.7738	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Max		178.3370	0.0000	0.0000	0.4735	4.3209	0.0000	0.0000	8.1724	2.2601
n		3	3	3	3	3	3	3	3	3

BRH PES 1	Dynas/cm^2	PHE, ng	ANT, ng	IMP, ng	FLA, ng	PYR, ng	BAA, ng	CHR, ng	BBF, ng	BKF, ng
2/27/92-0.0	0	5.47	0.00	0.61	1.33	0.00	0.22	0.00	0.34	0.08
3/10/92-0.0	0	0.00	0.00	0.00	2.30	0.07	0.00	0.00	0.00	0.00
Average	0	2.733	0.000	0.303	1.813	0.034	0.108	0.000	0.170	0.041
St. Dev.		3.865	0.000	0.428	0.183	0.048	0.153	0.000	0.240	0.058
R.S.D.%		141	#DIV/0!	141	38	141	141	#DIV/0!	141	141
Min		0.000	0.000	0.000	1.331	0.000	0.000	0.000	0.000	0.000
Max		5.467	0.000	0.608	2.296	0.068	0.217	0.000	0.339	0.083
n		2	2	2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	44.09	13.66	5.55	83.06	82.89	24.24	28.49	54.03	34.61
Average	2	44.090	13.656	5.548	83.064	82.892	24.241	28.487	54.029	34.609
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		44.090	13.656	5.548	83.064	82.892	24.241	28.487	54.029	34.609
Max		44.090	13.656	5.548	83.064	82.892	24.241	28.487	54.029	34.609
n		1	1	1	1	1	1	1	1	1
3/2/92-2.2-A	2	50.12	9.51	13.21	82.79	77.05	31.46	53.42	46.01	51.34
3/2/92-2.2-B	2	20.21	0.00	0.00	53.42	56.53	7.72	15.43	29.29	24.53
Average	2	35.166	4.753	6.600	68.107	66.792	19.593	34.425	37.648	37.936
St. Dev.		21.153	6.721	9.338	20.771	14.513	16.789	26.866	11.826	18.957
R.S.D.%		60	141	141	30	21	86	78	31	50
Min		20.209	0.000	0.000	53.420	56.530	7.722	15.428	29.286	24.531
Max		50.124	9.505	13.200	82.794	77.055	31.465	53.422	46.011	51.340
n		2	2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	26.84	5.35	6.75	25.65	27.05	14.80	25.40	31.80	25.40
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	26.840	5.350	6.750	25.650	27.050	14.800	25.400	31.800	25.400
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		26.840	5.350	6.750	25.650	27.050	14.800	25.400	31.800	25.400
Max		26.840	5.350	6.750	25.650	27.050	14.800	25.400	31.800	25.400
n		1	1	1	1	1	1	1	1	1
Average	2	35.316	7.128	6.376	61.232	60.881	19.537	30.684	40.281	33.970
St. Dev.		14.099	5.830	5.420	27.499	25.229	10.431	16.153	11.757	12.448
R.S.D.%		40	83	85	45	41	53	53	29	37
Min		20.209	0.000	0.000	25.650	27.050	7.722	15.428	29.286	24.531
Max		50.124	13.656	13.206	83.064	82.892	31.465	53.422	54.029	51.340
n		4	4	4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	29.00	8.03	12.21	89.22	92.64	23.14	60.84	48.99	39.00
Average	3	28.995	8.033	12.208	89.222	92.638	23.139	60.841	48.987	39.002
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		28.995	8.033	12.208	89.222	92.638	23.139	60.841	48.987	39.002
Max		28.995	8.033	12.208	89.222	92.638	23.139	60.841	48.987	39.002
n		1	1	1	1	1	1	1	1	1
3/10/92-3.2-A	3	26.71	2.98	8.83	94.30	102.38	30.17	52.56	50.35	60.62
3/10/92-3.2-B	3	59.03	15.90	25.25	146.12	136.37	86.82	86.86	69.85	93.30
Average	3	42.858	9.440	17.656	120.210	119.374	58.494	69.711	60.101	76.959
St. Dev.		22.851	9.134	11.610	36.637	24.034	40.055	24.259	13.791	23.109
R.S.D.%		53	97	66	30	20	68	35	23	30
Min		26.710	2.981	8.826	94.304	102.379	30.171	52.558	50.349	60.619
Max		59.026	15.898	25.246	146.116	136.368	86.817	86.864	69.853	93.300
n		2	2	2	2	2	2	2	2	2
Average	3	38.2438	8.9709	15.4267	109.8806	110.4618	46.7090	66.7543	56.3961	64.3070
St. Dev.		18.0342	6.5094	8.6700	31.4837	22.9581	34.9124	17.9016	11.6735	27.3362
R.S.D.%		47	73	56	29	21	75	27	21	43
Min		26.7102	2.9812	8.8261	89.2216	92.6384	23.1386	52.5575	48.9866	39.0023
Max		59.0261	15.8983	25.2457	146.1162	136.3682	86.8175	86.8644	69.8525	93.3001
n		3	3	3	3	3	3	3	3	3

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	BEP, mg	BAP, mg	PER, mg	INP, mg	DBA, mg	BPE, mg	Σ PAHs, mg
2/27/92-0.0	0	2.28	0.38	0.00	0.00	0.00	0.00	43.65
3/10/92-0.0	0	0.00	0.00	0.00	0.00	3.36	0.00	110.90
Average	0	1.140	0.192	0.000	0.000	1.682	0.000	77.273
St. Dev.		1.613	0.272	0.000	0.000	2.378	0.000	47.557
R.S.D. %		141	141	#DIV/0!	#DIV/0!	141	#DIV/0!	63
Min		0.000	0.000	0.000	0.000	0.000	0.000	43.645
Max		2.281	0.385	0.000	0.000	3.363	0.000	110.900
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	56.90	20.05	16.70	61.43	16.22	62.98	750.78
Average	2	56.899	20.049	16.699	61.427	16.218	62.985	750.783
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		56.899	20.049	16.699	61.427	16.218	62.985	750.783
Max		56.899	20.049	16.699	61.427	16.218	62.985	750.783
n		1	1	1	1	1	1	1
3/2/92-2.2-A	2	36.39	37.97	2.91	48.53	0.00	62.14	633.65
3/2/92-2.2-B	2	30.01	26.75	5.06	0.63	0.00	54.64	324.24
Average	2	33.198	32.334	3.996	24.582	0.000	58.386	478.945
St. Dev.		4.513	7.900	1.540	33.867	0.000	5.303	218.793
R.S.D. %		14	24	39	138	#DIV/0!	9	46
Min		30.007	26.748	2.907	0.634	0.000	54.637	324.235
Max		36.389	37.920	5.085	48.529	0.000	62.136	633.655
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	25.05	20.70	5.70	21.85	1.73	23.65	813.42
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	25.050	20.700	5.700	21.850	1.730	23.650	813.420
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		25.050	20.700	5.700	21.850	1.730	23.650	813.420
Max		25.050	20.700	5.700	21.850	1.730	23.650	813.420
n		1	1	1	1	1	1	1
Average	2	37.886	26.354	7.596	33.110	4.487	50.852	630.523
St. Dev.		14.000	8.279	6.184	27.210	7.843	18.518	217.340
R.S.D. %		38	31	81	82	175	36	34
Min		25.050	20.049	2.907	0.634	0.000	23.650	324.235
Max		56.899	37.920	16.699	61.427	16.218	62.985	813.420
n		4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	49.93	31.44	4.90	22.89	0.00	30.87	579.63
Average	3	49.931	31.440	4.902	22.885	0.000	30.871	579.635
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		49.931	31.440	4.902	22.885	0.000	30.871	579.635
Max		49.931	31.440	4.902	22.885	0.000	30.871	579.635
n		1	1	1	1	1	1	1
3/10/92-3.2-A	3	72.47	4.43	9.41	18.08	37.40	43.38	683.04
3/10/92-3.2-B	3	49.75	12.19	20.00	1.30	47.13	0.00	1040.76
Average	3	61.109	8.310	14.707	9.692	42.265	21.689	861.901
St. Dev.		16.064	5.493	7.484	11.862	6.881	30.673	252.947
R.S.D. %		26	66	51	122	16	141	29
Min		49.750	4.427	9.415	1.304	37.399	0.000	683.040
Max		72.467	12.194	19.999	18.079	47.130	43.378	1040.761
n		2	2	2	2	2	2	2
Average	3	57.3829	16.0202	11.4386	14.0893	28.1763	24.7498	757.8120
St. Dev.		13.0639	13.9070	7.7496	11.3303	24.8818	22.3276	241.9609
R.S.D. %		23	87	68	80	88	90	32
Min		49.7500	4.4265	4.9017	1.3038	0.0000	0.0000	579.6349
Max		72.4675	31.4397	19.9993	22.8850	47.1299	43.3784	1040.7608
n		3	3	3	3	3	3	3

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	CB008, ng/L	CB018, ng/l	CB029, ng/l	CB050, ng/l	CB028, ng/l	CB352, ng/l
2/27/92 0.0	0	4.24	0.00	0.00	3.22	0.00	0.00
3/10/92 0.0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	2.120	0.000	0.000	1.611	0.000	0.000
St. Dev.		2.998	0.000	0.000	2.278	0.000	0.000
R.S.D. %		141	#DIV/0!	#DIV/0!	141	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		4.239	0.000	0.000	3.221	0.000	0.000
n		2	2	2	2	2	2
3/2/92 2.1-A	2	4.76	5.77	0.00	18.37	15.29	8.98
3/2/92 2.1-B	2	18.59	29.31	0.00	9.89	53.92	7.20
Average	2	11.675	17.539	0.000	14.128	34.605	8.089
St. Dev.		9.781	16.647	0.000	6.050	27.314	1.252
R.S.D. %		84	95	#DIV/0!	42	79	15
Min		4.759	5.768	0.000	9.886	15.291	7.204
Max		18.591	29.310	0.000	18.371	53.915	8.978
n		2	2	2	2	2	2
3/2/92 2.2-A	2	0.52	0.00	0.00	32.51	21.37	8.17
3/2/92 2.2-B	2	1.59	0.00	0.00	18.82	15.06	6.24
Average	2	1.056	0.000	0.000	25.668	18.188	7.206
St. Dev.		0.758	0.000	0.000	9.678	4.502	1.363
R.S.D. %		72	#DIV/0!	#DIV/0!	38	25	19
Min		0.520	0.000	0.000	18.824	15.065	6.243
Max		1.592	0.000	0.000	32.511	21.372	8.170
n		2	2	2	2	2	2
3/4/92 2.1-A	2	12.60	7.70	0.00	20.07	21.60	38.44
3/4/92 2.1-B	2	3.03	0.63	0.00	38.03	26.89	9.52
Average	2	7.818	4.164	0.000	29.051	24.243	23.969
St. Dev.		6.770	4.997	0.000	12.697	3.743	20.447
R.S.D. %		87	120	#DIV/0!	44	15	85
Min		3.631	0.630	0.000	20.072	21.596	9.523
Max		12.605	7.697	0.000	38.029	26.890	38.438
n		2	2	2	2	2	2
Average	2	6.850	7.234	0.000	22.949	25.679	13.693
St. Dev.		7.178	11.296	0.000	10.351	14.533	12.474
R.S.D. %		105	156	#DIV/0!	45	57	95
Min		0.520	0.000	0.000	9.886	15.005	6.243
Max		18.591	29.310	0.000	38.029	53.919	38.438
n		6	6	6	6	6	6
3/10/92 3.1-A	3	0.00	0.00	0.00	33.86	30.82	18.52
3/10/92 3.1-B	3	0.20	0.01	0.00	27.28	24.79	14.03
Average	3	0.102	0.004	0.000	30.571	27.808	16.279
St. Dev.		0.144	0.005	0.000	4.658	4.266	3.178
R.S.D. %		141	141	#DIV/0!	15	15	28
Min		0.000	0.000	0.000	27.277	24.788	14.033
Max		0.204	0.008	0.000	33.864	30.821	18.525
n		2	2	2	2	2	2
3/10/92 3.2-A	3	0.00	0.00	0.00	41.91	30.25	16.47
3/10/92 3.2-B	3	0.00	0.00	0.00	32.91	21.47	11.01
Average	3	0.000	0.000	0.000	37.497	25.860	13.736
St. Dev.		0.000	0.000	0.000	6.362	6.206	3.862
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	17	24	28
Min		0.000	0.000	0.000	32.908	21.471	11.006
Max		0.000	0.000	0.000	41.905	30.248	16.467
n		2	2	2	2	2	2
Average	3	0.0510	0.0019	0.0000	33.9887	26.8312	15.0076
St. Dev.		0.1019	0.0038	0.0000	6.0250	4.4908	3.2336
R.S.D. %		200	200	#DIV/0!	18	17	22
Min		0.0000	0.0000	0.0000	27.2771	21.4712	11.0056
Max		0.2038	0.0076	0.0000	41.9052	30.8215	18.5246
n		4	4	4	4	4	4

FRH PES 1	Dynes/cm ²	CB104, ng/l	CB044, ng/l	CB066, ng/l	CB101, ng/l	CB087, ng/l	CB077, ng/l
2/27/92-0,0	0	0.00	0.00	11.19	6.64	2.58	14.17
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	0.000	0.000	5.595	3.320	1.292	7.087
St. Dev.		0.000	0.000	7.912	4.696	1.827	10.023
R.S.D. %		#DIV/0!	#DIV/0!	141	141	141	141
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		0.000	0.000	11.190	6.641	2.584	14.175
n		2	2	2	2	2	2
3/2/92-2,1-A	2	0.00	0.00	11.95	26.86	7.91	44.36
3/2/92-2,1-B	2	0.00	6.47	30.49	76.34	19.35	96.84
Average	2	0.000	3.236	21.220	51.601	13.633	70.598
St. Dev.		0.000	4.577	13.105	34.985	8.090	37.109
R.S.D. %		#DIV/0!	141	62	68	59	53
Min		0.000	0.000	11.953	26.863	7.913	44.358
Max		0.000	6.473	30.486	76.339	19.354	96.838
n		2	2	2	2	2	2
3/2/92-2,2-A	2	0.00	0.00	9.56	32.62	5.44	36.88
3/2/92-2,2-B	2	0.00	0.00	15.03	34.29	4.58	35.59
Average	2	0.000	0.000	12.294	33.452	5.010	36.238
St. Dev.		0.000	0.000	3.870	1.183	0.613	0.911
R.S.D. %		#DIV/0!	#DIV/0!	31	4	12	3
Min		0.000	0.000	9.558	32.1	4.576	35.594
Max		0.000	0.000	15.031	34.289	5.443	36.882
n		2	2	2	2	2	2
3/4/92-2,1-A	2	0.00	20.51	33.23	78.50	37.99	107.66
3/4/92-2,1-B	2	1.02	0.00	20.48	45.13	10.79	47.87
Average	2	0.512	10.256	26.856	61.812	24.389	77.776
St. Dev.		0.724	14.504	9.011	23.599	19.228	42.262
R.S.D. %		141	141	34	38	79	54
Min		0.000	0.000	20.484	45.126	10.793	47.892
Max		1.023	20.512	33.227	78.499	37.986	107.660
n		2	2	2	2	2	2
Average	2	0.171	4.497	20.123	48.955	14.344	61.537
St. Dev.		0.418	8.262	9.234	22.837	12.749	32.049
R.S.D. %		245	184	49	47	89	52
Min		0.000	0.000	9.558	26.863	4.576	35.594
Max		1.023	20.512	33.227	78.499	37.986	107.660
n		6	6	6	6	6	6
3/10/92-3,1-A	3	0.00	0.00	28.94	67.56	14.79	69.52
3/10/92-3,1-B	3	0.00	0.00	19.51	49.25	12.70	54.01
Average	3	0.000	0.000	23.727	58.400	13.743	61.764
St. Dev.		0.000	0.000	7.377	12.947	1.480	10.965
R.S.D. %		#DIV/0!	#DIV/0!	31	22	11	18
Min		0.000	0.000	18.511	49.245	12.696	54.010
Max		0.000	0.000	28.944	67.556	14.789	69.517
n		2	2	2	2	2	2
3/10/92-3,2-A	3	0.00	0.00	27.98	62.10	16.81	67.47
3/10/92-3,2-B	3	0.00	0.00	20.01	45.85	11.59	47.35
Average	3	0.000	0.000	23.993	53.973	14.198	57.411
St. Dev.		0.000	0.000	5.638	11.489	3.690	14.227
R.S.D. %		#DIV/0!	#DIV/0!	23	21	26	25
Min		0.000	0.000	20.006	45.849	11.589	47.351
Max		0.000	0.000	27.980	62.097	16.807	67.471
n		2	2	2	2	2	2
Average	3	0.0000	0.0000	23.8601	56.1867	13.9705	59.5873
St. Dev.		0.0000	0.0000	5.3630	10.3156	2.3103	10.6709
R.S.D. %		#DIV/0!	#DIV/0!	22	18	17	18
Min		0.0000	0.0000	18.5106	45.8492	11.5891	47.3507
Max		0.0000	0.0000	28.9437	67.5556	16.8072	69.5172
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB154, ng/l	CB118, ng/l	CB188, ng/l	CB153, ng/l	CB105, ng/l	CB138, ng/l
2/27/92-0,0	0	0.00	16.24	2.78	6.09	4.89	0.00
3/10/92-0,0	0	1.06	0.00	0.00	0.00	0.00	0.00
Average	0	0.528	8.121	1.390	3.044	2.445	0.000
St. Dev.		0.746	11.484	1.966	4.304	3.458	0.000
R.S.D. %		141	141	141	141	141	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		1.055	16.241	2.780	6.087	4.890	0.000
n		2	2	2	2	2	2
3/2/92-2,1-A	2	23.64	42.57	0.00	15.99	19.76	26.12
3/2/92-2,1-B	2	50.29	98.88	0.00	47.55	42.05	73.05
Average	2	36.965	70.726	0.000	31.771	30.902	49.586
St. Dev.		18.850	39.813	0.000	22.314	15.761	33.184
R.S.D. %		51	56	#DIV/0!	70	51	67
Min		23.636	42.574	0.000	15.993	19.758	26.121
Max		50.294	98.878	0.000	47.549	42.047	73.050
n		2	2	2	2	2	2
3/2/92-2,2-A	2	21.14	45.90	0.00	16.20	12.48	23.55
3/2/92-2,2-B	2	19.73	49.35	6.47	20.34	13.75	27.74
Average	2	20.438	47.624	3.237	18.268	13.116	25.643
St. Dev.		0.998	2.436	4.577	2.931	0.901	2.964
R.S.D. %		5	5	141	16	7	12
Min		19.733	45.902	0.000	16.196	12.479	23.547
Max		21.144	49.346	6.473	20.340	13.754	27.738
n		2	2	2	2	2	2
3/4/92-2,1-A	2	0.00	41.70	12.68	55.97	59.34	89.69
3/4/92-2,1-B	2	25.47	69.56	8.47	33.22	18.21	41.48
Average	2	12.736	55.632	10.575	44.594	38.772	65.583
St. Dev.		18.012	19.696	2.980	16.085	29.080	34.091
R.S.D. %		141	35	28	36	75	52
Min		0.000	41.704	8.468	33.220	18.209	41.478
Max		25.473	69.559	12.682	55.969	59.335	89.689
n		2	2	2	2	2	2
Average	2	23.380	57.994	4.604	31.544	27.597	46.937
St. Dev.		16.086	22.492	5.427	17.679	18.899	27.887
R.S.D. %		69	39	118	54	68	59
Min		0.000	41.704	0.000	15.993	12.479	23.547
Max		50.294	98.878	12.682	55.969	59.335	89.689
n		6	6	6	6	6	6
3/10/92-3,1-A	3	36.34	97.75	12.05	49.27	31.92	59.05
3/10/92-3,1-B	3	28.44	73.92	9.14	35.32	21.69	41.28
Average	3	32.367	85.832	10.596	42.294	26.805	50.168
St. Dev.		5.588	16.849	2.063	9.862	7.236	12.568
R.S.D. %		17	20	19	23	27	25
Min		28.435	73.918	9.138	35.320	21.689	41.281
Max		36.338	97.746	12.055	49.267	31.922	59.055
n		2	2	2	2	2	2
3/10/92-3,2-A	3	34.95	88.15	11.50	42.57	27.68	56.77
3/10/92-3,2-B	3	25.51	71.11	9.91	35.02	16.07	41.17
Average	3	30.232	79.627	10.704	38.796	21.874	48.971
St. Dev.		6.676	12.047	1.130	5.337	8.205	11.025
R.S.D. %		22	15	11	14	38	23
Min		25.512	71.109	9.905	35.022	16.072	41.175
Max		34.953	88.146	11.503	42.570	27.676	56.767
n		2	2	2	2	2	2
Average	3	31.3094	82.7298	10.6502	40.5448	24.3397	49.5692
St. Dev.		5.1779	48.34	1.3594	6.7816	6.9283	9.6773
R.S.D. %		17	15	13	17	28	20
Min		25.5116	71.1088	9.1376	35.0224	16.0720	41.1746
Max		36.3378	97.7460	12.0549	49.2669	31.9219	59.0548
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB126, ng/l	CB187, ng/l	CB128, ng/l	CB200, ng/l	CB180, ng/l	CB170, ng/l
2/27/92-0,0	0	1.93	1.20	0.11	0.00	3.25	0.00
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	0.966	0.598	0.054	0.000	1.624	0.000
St. Dev.		1.367	0.846	0.076	0.000	2.297	0.000
R.S.D. %		141	141	141	#DIV/0!	141	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000
Max		1.933	1.196	0.108	0.000	3.240	0.000
n		2	2	2	2	2	2
3/2/92-2,1-A	2	4.34	3.05	6.47	0.00	8.91	0.00
3/2/92-2,1-B	2	5.39	7.67	12.41	0.00	19.37	5.46
Average	2	4.864	5.361	9.442	0.000	14.143	2.730
St. Dev.		0.743	3.261	4.199	0.000	7.398	3.861
R.S.D. %		15	61	44	#DIV/0!	52	141
Min		4.339	3.055	6.472	0.000	8.911	0.000
Max		5.389	7.666	12.411	0.000	19.374	5.460
n		2	2	2	2	2	2
3/2/92-2,2-A	2	2.37	0.15	3.27	0.00	8.38	0.00
3/2/92-2,2-B	2	4.04	2.97	3.69	0.00	9.45	0.00
Average	2	3.204	1.558	3.480	0.000	8.916	0.000
St. Dev.		1.184	1.993	0.298	0.000	0.759	0.000
R.S.D. %		37	128	9	#DIV/0!	9	#DIV/0!
Min		2.367	0.148	3.270	0.000	8.379	0.000
Max		4.041	2.967	3.691	0.000	9.452	0.000
n		2	2	2	2	2	2
3/4/92-2,1-A	2	8.95	11.78	15.52	7.18	24.08	29.84
3/4/92-2,1-B	2	3.73	5.94	4.99	0.00	13.67	0.00
Average	2	6.339	8.858	10.256	3.590	18.873	14.918
St. Dev.		3.691	4.133	7.443	5.077	7.363	21.098
R.S.D. %		58	47	73	141	39	141
Min		3.729	5.935	4.993	0.000	13.667	0.000
Max		8.948	11.780	15.519	7.180	24.379	29.837
n		2	2	2	2	2	2
Average	2	4.802	5.259	7.726	1.197	13.377	5.883
St. Dev.		2.254	4.123	5.057	2.931	6.461	11.936
R.S.D. %		47	78	65	245	46	203
Min		2.367	0.148	3.270	0.000	8.379	0.000
Max		8.948	11.780	15.519	7.180	24.079	29.837
n		6	6	6	6	6	6
3/10/92-3,1-A	3	4.22	8.92	8.49	0.00	19.98	2.98
3/10/92-3,1-B	3	3.47	5.09	6.16	0.00	14.52	0.00
Average	3	3.846	7.005	7.327	0.000	17.248	1.498
St. Dev.		0.525	2.707	1.647	0.000	3.860	2.105
R.S.D. %		14	39	22	#DIV/0!	22	141
Min		3.475	5.091	6.163	0.000	14.519	0.000
Max		4.217	8.919	8.492	0.000	19.977	2.976
n		2	2	2	2	2	2
3/10/92-3,2-A	3	6.49	9.57	9.26	0.00	16.23	0.96
3/10/92-3,2-B	3	2.85	9.69	8.28	0.00	15.31	1.71
Average	3	4.671	9.627	8.771	0.000	15.766	1.332
St. Dev.		2.578	0.083	0.689	0.000	0.650	0.533
R.S.D. %		55	1	8	#DIV/0!	4	40
Min		2.348	9.569	8.283	0.000	15.306	1.955
Max		6.494	9.685	9.258	0.000	16.225	1.709
n		2	2	2	2	2	2
Average	3	4.2584	8.3160	8.0490	0.0000	16.5071	1.4101
St. Dev.		1.5921	2.1764	1.3253	0.0000	2.4164	1.2566
R.S.D. %		37	26	16	#DIV/0!	15	89
Min		2.8477	5.0907	6.1630	0.0000	14.5193	0.0000
Max		6.4942	9.6853	9.2581	0.0000	19.9775	2.9763
n		4	4	4	4	4	4

BRH PES 1	Dynes/cm ²	CB195, ng/l	CB206, ng/l	CB209, ng/l	CB 218, ng/l	Σ PCB, ng/l
2/27/92-0.0	0	3.56	3.48	2.19	87.77	#REF!
3/10/92-0.0	0	0.00	0.00	0.00	1.06	#REF!
Average	0	1.779	1.742	1.096	44.412	#REF!
St. Dev.		2.516	2.464	1.550	61.315	#REF!
R.S.D. %		141	141	141	138	#REF!
Min		0.000	0.000	0.000	1.055	#REF!
Max		3.558	3.485	2.192	87.768	#REF!
n		2	2	2	2	0
3/2/92-2.1-A	2	0.00	0.00	2.99	298.10	#REF!
3/2/92-2.1-B	2	0.00	7.43	38.05	756.00	#REF!
Average	2	0.000	3.717	20.521	527.052	#REF!
St. Dev.		0.000	5.257	24.787	323.784	#REF!
R.S.D. %		#DIV/0!	141	121	61	#REF!
Min		0.000	0.000	2.994	298.102	#REF!
Max		0.000	7.434	38.048	756.001	#REF!
n		2	2	2	2	0
3/2/92-2.2-A	2	0.00	0.00	0.25	280.76	#REF!
3/2/92-2.2-B	2	0.00	0.00	1.93	290.62	#REF!
Average	2	0.000	0.000	1.094	285.690	#REF!
St. Dev.		0.000	0.000	1.187	6.977	#REF!
R.S.D. %		#DIV/0!	#DIV/0!	109	2	#REF!
Min		0.000	0.000	0.254	280.757	#REF!
Max		0.000	0.000	1.933	290.623	#REF!
n		2	2	2	2	0
3/4/92-2.1-A	2	1.42	3.72	7.46	747.61	#REF!
3/4/92-2.1-B	2	0.00	0.00	3.81	431.96	#REF!
Average	2	0.709	1.358	5.635	589.785	#REF!
St. Dev.		1.002	2.628	2.580	223.195	#REF!
R.S.D. %		141	141	46	38	#REF!
Min		0.000	0.000	3.810	431.962	#REF!
Max		1.418	3.717	7.459	747.608	#REF!
n		2	2	2	2	0
Average	2	0.236	1.859	9.083	467.509	#REF!
St. Dev.		0.579	3.110	14.391	227.073	#REF!
R.S.D. %		245	167	158	49	#REF!
Min		0.000	0.000	0.254	280.757	#REF!
Max		1.418	7.434	38.048	756.001	#REF!
n		6	6	6	6	0
3/10/92-3.1-A	3	0.49	0.00	2.90	598.37	#REF!
3/10/92-3.1-B	3	0.00	0.00	3.22	443.02	#REF!
Average	3	0.243	0.000	3.059	520.492	#REF!
St. Dev.		0.343	0.000	0.225	109.847	#REF!
R.S.D. %		141	#DIV/0!	7	21	#REF!
Min		0.000	0.000	2.900	443.018	#REF!
Max		0.485	0.000	3.218	598.366	#REF!
n		2	2	2	2	0
3/10/92-3.2-A	3	0.00	0.00	1.36	568.45	#REF!
3/10/92-3.2-B	3	4.96	0.00	0.03	431.80	#REF!
Average	3	2.481	0.000	0.692	500.123	#REF!
St. Dev.		3.509	0.000	0.939	96.628	#REF!
R.S.D. %		141	#DIV/0!	136	19	#REF!
Min		0.000	0.000	0.028	431.797	#REF!
Max		4.963	0.000	1.357	568.449	#REF!
n		2	2	2	2	0
Average	3	1.3620	0.0000	1.3756	510.4073	#REF!
St. Dev.		2.4114	0.0000	1.4757	85.2963	#REF!
R.S.D. %		177	#DIV/0!	79	17	#REF!
Min		0.0000	0.0000	0.0281	431.7967	#REF!
Max		4.9628	0.0000	3.2180	598.3657	#REF!
n		4	4	4	4	0

BRH PES 1	Dynan/cm^2	HCB, ug/l	g-HCH, ug/l	HEPT, ng/l	ALDRIN, ng/l	HEPT E, ug/l	OP'DDE, ng/l
2/27/92-0.0	0	NA	NA	NA	NA	NA	NA
3/10/92-0.0	0	0.32	#REF!	0.00	0.00	#REF!	0.00
Average	0	0.315	#REF!	0.000	0.000	#REF!	0.000
St. Dev.		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!
R.S.D. %		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!
Min		0.315	#REF!	0.000	0.000	#REF!	0.000
Max		0.315	#REF!	0.000	0.000	#REF!	0.000
n		1	0	1	1	0	1
3/2/92-2.1-A	2	4.20	#REF!	2.25	0.00	#REF!	0.00
3/2/92-2.1-B	2	4.84	#REF!	4.13	0.00	#REF!	29.59
Average	2	4.521	#REF!	3.193	0.000	#REF!	14.794
St. Dev.		0.449	#REF!	1.332	0.000	#REF!	20.921
R.S.D. %		10	#REF!	42	#DIV/0!	#REF!	141
Min		4.204	#REF!	2.251	0.000	#REF!	0.000
Max		4.839	#REF!	4.135	0.000	#REF!	29.587
n		2	0	2	2	0	2
3/2/92-2.2-A	2	14.91	#REF!	0.00	0.00	#REF!	0.00
3/2/92-2.2-B	2	1.82	#REF!	0.00	0.00	#REF!	6.78
Average	2	8.361	#REF!	0.000	0.000	#REF!	3.389
St. Dev.		9.255	#REF!	0.000	0.000	#REF!	4.793
R.S.D. %		111	#REF!	#DIV/0!	#DIV/0!	#REF!	141
Min		1.817	#REF!	0.000	0.000	#REF!	0.000
Max		14.905	#REF!	0.000	0.000	#REF!	6.778
n		2	0	2	2	0	2
3/4/92-2.1-A	2	NA	NA	NA	NA	NA	NA
3/4/92-2.1-B	2	3.55	#REF!	0.00	0.00	#REF!	0.00
Average	2	3.550	#REF!	0.000	0.000	#REF!	0.000
St. Dev.		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!
R.S.D. %		#DIV/0!	#REF!	#DIV/0!	#DIV/0!	#REF!	#DIV/0!
Min		3.550	#REF!	0.000	0.000	#REF!	0.000
Max		3.550	#REF!	0.000	0.000	#REF!	0.000
n		1	0	1	1	0	1
Average	2	5.863	#REF!	1.277	0.000	#REF!	7.273
St. Dev.		5.179	#REF!	1.871	0.000	#REF!	12.815
R.S.D. %		88	#REF!	147	#DIV/0!	#REF!	176
Min		1.817	#REF!	0.000	0.000	#REF!	0.000
Max		14.905	#REF!	4.135	0.000	#REF!	29.587
n		5	0	5	5	0	5
3/10/92-3.1-A	3	1.55	#REF!	0.00	0.00	#REF!	12.36
3/10/92-3.1-B	3	2.54	#REF!	0.00	0.00	#REF!	9.04
Average	3	2.046	#REF!	0.000	0.000	#REF!	10.698
St. Dev.		0.704	#REF!	0.009	0.000	#REF!	2.349
R.S.D. %		34	#REF!	#DIV/0!	#DIV/0!	#REF!	22
Min		1.549	#REF!	0.000	0.000	#REF!	9.038
Max		2.544	#REF!	0.000	0.000	#REF!	12.359
n		2	0	2	2	0	2
3/10/92-3.2-A	3	2.39	#REF!	0.00	0.00	#REF!	9.21
3/10/92-3.2-B	3	2.50	#REF!	0.00	0.00	#REF!	7.19
Average	3	2.443	#REF!	0.000	0.000	#REF!	8.198
St. Dev.		0.073	#REF!	0.000	0.000	#REF!	1.433
R.S.D. %		3	#REF!	#DIV/0!	#DIV/0!	#REF!	17
Min		2.391	#REF!	0.000	0.000	#REF!	7.185
Max		2.495	#REF!	0.000	0.000	#REF!	9.212
n		2	0	2	2	0	2
Average	3	2.2447	#REF!	0.0000	0.0000	#REF!	9.4484
St. Dev.		0.584	#REF!	0.0000	0.0000	#REF!	2.1461
R.S.D. %		21	#REF!	#DIV/0!	#DIV/0!	#REF!	23
Min		1.5486	#REF!	0.0000	0.0000	#REF!	7.1854
Max		2.5436	#REF!	0.0000	0.0000	#REF!	12.3589
n		4	0	4	4	0	4

BRH PES 1	Dynaa/cm ²	A-CHLDA, ng/l	TRANSNON, ng/l	DIELDRIN, ng/l	PP'DDE, ng/l	OP'DDD, ng/l
2/27/92-0.0	0	NA	NA	NA	NA	NA
3/10/92-0.0	0	#REF!	#REF!	0.00	0.54	0.00
Average	0	#REF!	#REF!	0.000	0.537	0.000
St. Dev.		#REF!	#REF!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#REF!	#REF!	#DIV/0!	#DIV/0!	#DIV/0!
Min		#REF!	#REF!	0.000	0.537	0.000
Max		#REF!	#REF!	0.000	0.537	0.000
n		0	0	1	1	1
3/2/92-2.1-A	2	#REF!	#REF!	NA	22.84	15.62
3/2/92-2.1-B	2	#REF!	#REF!	NA	39.71	33.23
Average	2	#REF!	#REF!	#DIV/0!	31.275	24.424
St. Dev.		#REF!	#REF!	#DIV/0!	11.923	12.457
R.S.D. %		#REF!	#REF!	#DIV/0!	38	51
Min		#REF!	#REF!	0.000	22.844	15.615
Max		#REF!	#REF!	0.000	39.705	33.232
n		0	0	0	2	2
3/2/92-2.2-A	2	#REF!	#REF!	6.43	15.59	34.37
3/2/92-2.2-B	2	#REF!	#REF!	NA	13.62	13.04
Average	2	#REF!	#REF!	6.429	14.605	23.706
St. Dev.		#REF!	#REF!	#DIV/0!	1.391	15.086
R.S.D. %		#REF!	#REF!	#DIV/0!	10	64
Min		#REF!	#REF!	6.429	13.621	13.039
Max		#REF!	#REF!	6.429	15.588	34.373
n		0	0	1	2	2
3/4/92-2.1-A	2	NA	NA	NA	NA	NA
3/4/92-2.1-B	2	#REF!	#REF!	NA	0.00	16.86
Average	2	#REF!	#REF!	#DIV/0!	0.000	16.863
St. Dev.		#REF!	#REF!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#REF!	#REF!	#DIV/0!	#DIV/0!	#DIV/0!
Min		#REF!	#REF!	0.000	0.000	16.860
Max		#REF!	#REF!	0.000	0.000	16.860
n		0	0	6	1	1
Average	2	#REF!	#REF!	6.429	18.352	22.624
St. Dev.		#REF!	#REF!	#DIV/0!	14.517	10.308
R.S.D. %		#REF!	#REF!	#DIV/0!	79	46
Min		#REF!	#REF!	6.429	0.000	13.039
Max		#REF!	#REF!	6.429	39.705	34.373
n		0	0	1	5	5
3/10/92-3.1-A	3	#REF!	#REF!	NA	27.19	24.01
3/10/92-3.1-B	3	#REF!	#REF!	NA	22.07	18.82
Average	3	#REF!	#REF!	#DIV/0!	24.627	21.415
St. Dev.		#REF!	#REF!	#DIV/0!	3.619	3.670
R.S.D. %		#REF!	#REF!	#DIV/0!	15	17
Min		#REF!	#REF!	0.000	22.068	18.820
Max		#REF!	#REF!	0.000	27.186	24.011
n		0	0	0	2	2
3/10/92-3.2-A	3	#REF!	#REF!	NA	25.91	23.13
3/10/92-3.2-B	3	#REF!	#REF!	NA	5.69	16.88
Average	3	#REF!	#REF!	#DIV/0!	15.802	20.004
St. Dev.		#REF!	#REF!	#DIV/0!	14.399	4.423
R.S.D. %		#REF!	#REF!	#DIV/0!	90	22
Min		#REF!	#REF!	0.000	5.691	16.877
Max		#REF!	#REF!	0.000	25.912	23.132
n		0	0	0	2	2
Average	3	#REF!	#REF!	#DIV/0!	20.2140	20.7098
St. Dev.		#REF!	#REF!	#DIV/0!	9.9237	3.4167
R.S.D. %		#REF!	#REF!	#DIV/0!	49	16
Min		#REF!	#REF!	0.0000	5.6906	16.8771
Max		#REF!	#REF!	0.0000	27.1855	24.0106
n		0	0	0	4	4

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	PP'DDD, ng/l	OP'DDT, ng/l	PP'DDT, ng/l	MIREX, ng/l
2/27/92-0.0	0	NA	NA	NA	NA
3/10/92-0.0	0	0.00	0.00	#REF!	0.00
Average	0	0.000	0.000	#REF!	0.000
St. Dev.		#DIV/0!	#DIV/0!	#REF!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#REF!	#DIV/0!
Min		0.000	0.000	#REF!	0.000
Max		0.000	0.000	#REF!	0.000
n		1	1	0	1
3/2/92-2.1-A	2	42.66	8.43	#REF!	0.49
3/2/92-2.1-B	2	0.00	0.00	#REF!	0.00
Average	2	21.329	4.214	#REF!	0.246
St. Dev.		30.163	5.959	#REF!	0.348
R.S.D. %		141	141	#REF!	141
Min		0.000	0.000	#REF!	0.000
Max		42.657	8.427	#REF!	0.492
n		2	2	0	2
3/2/92-2.2-A	2	0.00	0.00	#REF!	0.00
3/2/92-2.2-B	2	4.65	0.00	#REF!	3.25
Average	2	2.327	0.000	#REF!	1.627
St. Dev.		3.291	0.000	#REF!	2.301
R.S.D. %		141	#DIV/0!	#REF!	141
Min		0.000	0.000	#REF!	0.000
Max		4.654	0.000	#REF!	3.254
n		2	2	0	2
3/4/92-2.1-A	2	NA	NA	NA	NA
3/4/92-2.1-B	2	6.82	4.41	#REF!	0.61
Average	2	6.815	4.408	#REF!	0.611
St. Dev.		#DIV/0!	#DIV/0!	#REF!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#REF!	#DIV/0!
Min		6.815	4.408	#REF!	0.611
Max		6.815	4.408	#REF!	0.611
n		1	1	0	1
Average	2	10.825	2.567	#REF!	0.871
St. Dev.		18.040	3.791	#REF!	1.361
R.S.D. %		167	148	#REF!	156
Min		0.000	0.000	#REF!	0.000
Max		42.657	8.427	#REF!	3.254
n		5	5	0	5
3/10/92-3.1-A	3	0.00	0.00	#REF!	0.00
3/10/92-3.1-B	3	6.26	0.00	#REF!	0.00
Average	3	3.132	0.000	#REF!	0.000
St. Dev.		4.429	0.000	#REF!	0.000
R.S.D. %		141	#DIV/0!	#REF!	#DIV/0!
Min		0.000	0.000	#REF!	0.000
Max		6.263	0.000	#REF!	0.000
n		2	2	0	2
3/10/92-3.2-A	3	3.04	6.52	#REF!	6.69
3/10/92-3.2-B	3	5.04	4.69	#REF!	17.88
Average	3	4.039	5.608	#REF!	12.286
St. Dev.		1.409	1.295	#REF!	7.911
R.S.D. %		35	23	#REF!	64
Min		3.043	4.692	#REF!	6.692
Max		5.036	6.524	#REF!	17.880
n		2	1	0	2
Average	3	3.5855	2.8040	#REF!	6.1431
St. Dev.		2.7340	3.3230	#REF!	8.4367
R.S.D. %		76	119	#REF!	137
Min		0.0000	0.0000	#REF!	0.0000
Max		6.2632	6.5240	#REF!	17.8800
n		4	4	0	4

BRH PES 1	Dynes/cm ²	NAP, mg/l	2MN, mg/l	1MN, mg/l	BIP, mg/l	DMN, mg/l	ACL, mg/l	ACT, mg/l
2/27/92-0.0	0	0.00	0.00	0.00	417.33	50.85	0.00	0.00
3/10/92-0.0	0	422.31	124.20	131.26	0.00	234.07	0.00	0.00
Average	0	211.154	62.101	65.632	208.667	142.460	0.000	0.000
St. Dev.		298.617	87.825	92.817	295.099	129.561	0.000	0.000
R.S.D. %		141	141	141	141	91	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	50.847	0.000	0.000
Max		422.308	124.203	131.264	417.334	234.074	0.000	0.000
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	863.72	327.57	159.04	0.00	559.97	68.17	0.00
Average	2	863.718	327.575	159.039	0.000	559.975	68.174	0.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		863.718	327.575	159.039	0.000	559.975	68.174	0.000
Max		863.718	327.575	159.039	0.000	559.975	68.174	0.000
n		1	1	1	1	1	1	1
3/2/92-2.2-A	2	287.45	0.00	0.00	45.24	121.95	0.00	0.00
3/2/92-2.2-B	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	2	143.726	0.000	0.000	22.618	60.976	0.000	0.000
St. Dev.		203.259	0.000	0.000	31.987	86.234	0.000	0.000
R.S.D. %		141	#DIV/0!	#DIV/0!	141	141	#DIV/0!	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		287.451	0.000	0.000	45.236	121.953	0.000	0.000
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	326.80	1199.00	363.20	1913.00	2018.00	1594.00	722.00
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	326.800	1199.000	363.200	1913.000	2018.000	1594.000	722.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		326.800	1199.000	363.200	1913.000	2018.000	1594.000	722.000
Max		326.800	1199.000	363.200	1913.000	2018.000	1594.000	722.000
n		1	1	1	1	1	1	1
Average	2	369.492	381.644	130.560	489.559	674.982	415.544	180.500
St. Dev.		360.248	566.362	172.264	949.200	927.068	786.295	361.000
R.S.D. %		97	148	132	194	137	189	200
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		863.718	1199.000	363.200	1913.000	2018.000	1594.000	722.000
n		4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	715.48	0.00	0.00	0.00	0.00	0.00	0.00
Average	3	715.475	0.000	0.000	0.000	0.000	0.000	0.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		715.475	0.000	0.000	0.000	0.000	0.000	0.000
Max		715.475	0.000	0.000	0.000	0.000	0.000	0.000
n		1	1	1	1	1	1	1
3/10/92-3.2-A	3	1283.67	0.00	0.00	9.47	86.42	0.00	0.00
3/10/92-3.2-B	3	3566.74	0.00	0.00	0.00	42.50	0.00	0.00
Average	3	2425.205	0.000	0.000	4.735	64.456	0.000	0.000
St. Dev.		1614.374	0.000	0.000	6.697	31.058	0.000	0.000
R.S.D. %		67	#DIV/0!	#DIV/0!	141	48	#DIV/0!	#DIV/0!
Min		1283.671	0.000	0.000	0.000	42.495	0.000	0.000
Max		3566.740	0.000	0.000	9.471	86.418	0.000	0.000
n		2	2	2	2	2	2	2
Average	3	1855.753	0.0000	0.0000	3.1570	42.3709	0.0000	0.0000
St. Dev.		1509.1368	0.0000	0.0000	5.4680	43.2108	0.0000	0.0000
R.S.D. %		81	#DIV/0!	#DIV/0!	173	101	#DIV/0!	#DIV/0!
Min		715.4751	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Max		3566.7400	0.0000	0.0000	9.4709	86.4177	0.0000	0.0000
n		3	3	3	3	3	3	3

Appendix 1: BRH PES 1

BRH PES 1	Dynes/cm ²	TMN, ng/l	FLU, ng/l	PHE, ng/l	ANT, ng/l	IMP, ng/l	FLA, ng/l	PYR, ng/l
2/2/92-0.0	0	169.38	21.21	109.33	0.00	12.10	26.61	0.00
3/10/92-0.0	0	139.88	0.00	0.00	0.00	0.00	22.96	0.68
Average	0	154.630	10.604	54.666	0.000	6.052	24.785	0.342
St. Dev.		20.862	14.997	77.309	0.000	8.359	2.584	0.483
R.S.D. %		13	141	141	#DIV/0!	141	10	141
Min		139.879	0.000	0.000	0.000	0.000	22.958	0.000
Max		169.382	21.209	109.331	0.000	12.104	26.612	0.683
"		2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	1622.76	46.06	1102.24	341.40	138.71	2076.59	2072.29
Average	2	1622.762	46.064	1102.240	341.399	138.711	2076.589	2072.289
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		1622.762	46.064	1102.240	341.399	138.711	2076.589	2072.289
Max		1622.762	46.064	1102.240	341.399	138.711	2076.589	2072.289
"		1	1	1	1	1	1	1
3/2/92-2.2-A	2	0.00	162.40	1002.48	190.10	264.12	1635.88	1541.09
3/2/92-2.2-B	2	0.00	0.00	404.17	0.00	0.00	1068.40	1130.59
Average	2	0.000	81.198	703.327	95.052	132.060	1362.142	1335.842
St. Dev.		0.000	114.832	423.069	134.424	184.761	415.416	290.264
R.S.D. %		#DIV/0!	141	60	141	141	30	22
Min		0.000	0.000	404.172	0.000	0.000	1068.399	1130.594
Max		0.000	162.397	1002.481	190.108	264.120	1635.885	1541.090
"		2	2	2	2	2	2	2
3/4/92-2.1-A	2	2306.00	72.00	536.80	107.00	135.00	513.00	541.00
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	2306.000	72.000	536.800	107.000	135.000	513.000	541.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		2306.000	72.000	536.800	107.000	135.000	513.000	541.000
Max		2306.000	72.000	536.800	107.000	135.000	513.000	541.000
"		1	1	1	1	1	1	1
Average	2	982.190	70.115	761.423	159.626	134.458	1328.468	1321.243
St. Dev.		1167.933	68.347	342.709	144.014	107.873	683.011	647.438
R.S.D. %		119	97	45	90	80	51	49
Min		0.000	0.000	404.172	0.000	0.000	513.000	541.000
Max		2306.000	162.397	1102.240	341.399	264.120	2076.589	2072.289
"		4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	0.00	15.35	579.90	160.66	244.16	1784.43	1852.77
Average	3	0.000	15.354	579.904	160.664	244.165	1784.432	1852.768
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D. %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.000	15.354	579.904	160.664	244.165	1784.432	1852.768
Max		0.000	15.354	579.904	160.664	244.165	1784.432	1852.768
"		1	1	1	1	1	1	1
3/10/92-3.2-A	3	0.00	0.00	534.20	59.62	176.52	1886.08	2047.58
3/10/92-3.2-B	3	163.45	45.20	1180.52	317.97	504.91	2922.32	2727.36
Average	3	81.724	22.601	857.363	188.795	340.719	2404.203	2387.470
St. Dev.		115.575	31.963	457.015	182.475	232.208	732.734	480.682
R.S.D. %		141	141	53	97	68	30	20
Min		0.000	0.000	534.204	59.624	176.523	1886.082	2047.577
Max		163.447	45.203	1180.521	317.965	504.915	2922.325	2727.363
"		2	2	2	2	2	2	2
Average	3	54.4824	20.1855	764.8764	179.4180	308.5341	2197.6130	2209.2362
St. Dev.		94.3664	22.9855	360.6837	130.1875	173.4009	629.6735	459.1617
R.S.D. %		173	114	47	73	56	29	21
Min		0.0000	0.0000	534.2040	59.6244	176.5230	1784.4322	1852.7684
Max		163.4473	45.2028	1180.5214	317.9653	504.9147	2922.3249	2727.3635
"		3	3	3	3	3	3	3

BRH PES 1	Dynon/cm^2	BAA, ng/l	CHR, ng/l	BBF, ng/l	BKF, ng/l	BEP, ng/l	BAP, ng/l	PER, ng/l
2/27/92-0.0	0	4.34	0.00	6.78	1.65	45.62	7.69	0.00
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0	2.169	0.000	3.392	0.827	22.810	3.846	0.000
St. Dev.		3.067	0.000	4.797	1.169	32.258	5.439	0.000
R.S.D.%		141	#DIV/0!	141	141	141	141	#DIV/0!
Min		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max		4.337	0.000	6.784	1.653	45.623	7.692	0.000
n		2	2	2	2	2	2	2
3/2/92-2.1-A	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/2/92-2.1-B	2	606.02	712.16	1350.73	865.21	1422.48	501.23	417.46
Average	2	606.022	712.163	1350.734	865.213	1422.479	501.228	417.464
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		606.022	712.163	1350.734	865.213	1422.479	501.228	417.464
Max		606.022	712.163	1350.734	865.213	1422.479	501.228	417.464
n		1	1	1	1	1	1	1
3/2/92-2.2-A	2	629.30	1068.45	920.21	1026.80	727.78	758.40	58.14
3/2/92-2.2-B	2	154.44	308.56	585.71	490.63	600.13	534.96	101.70
Average	2	391.868	688.501	752.962	758.713	663.960	646.681	79.923
St. Dev.		335.775	537.324	236.524	379.132	90.262	157.993	30.800
R.S.D.%		86	78	31	50	14	24	39
Min		154.439	308.556	585.715	490.625	600.135	534.963	58.144
Max		629.297	1068.447	920.210	1026.800	727.785	758.348	101.701
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	296.00	508.00	636.00	508.00	501.00	414.00	114.00
3/4/92-2.1-B	2	LOST	LOST	LOST	LOST	LOST	LOST	LOST
Average	2	296.000	508.000	636.000	508.000	501.000	414.000	114.000
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		296.000	508.000	636.000	508.000	501.000	414.000	114.000
Max		296.000	508.000	636.000	508.000	501.000	414.000	114.000
n		1	1	1	1	1	1	1
Average	2	421.440	649.292	873.165	722.659	812.850	552.147	172.827
St. Dev.		234.023	324.491	350.790	266.296	416.886	146.643	164.842
R.S.D.%		55	50	40	37	51	27	95
Min		154.439	308.556	585.715	490.625	501.030	414.000	58.144
Max		629.297	1068.447	1350.734	1026.800	1422.479	758.398	417.464
n		4	4	4	4	4	4	4
3/10/92-3.1-A	3	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10/92-3.1-B	3	462.77	1216.82	979.73	780.05	998.62	628.79	98.03
Average	3	462.772	1216.817	979.731	780.047	998.624	628.793	98.035
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		462.772	1216.817	979.731	780.047	998.624	628.793	98.035
Max		462.772	1216.817	979.731	780.047	998.624	628.793	98.035
n		1	1	1	1	1	1	1
3/10/92-3.2-A	3	603.42	1051.15	1006.98	1212.37	1449.35	88.53	188.29
3/10/92-3.2-B	3	1736.35	1737.29	1397.05	1866.00	995.00	243.89	399.99
Average	3	1169.885	1394.220	1202.017	1539.187	1222.175	166.210	294.140
St. Dev.		801.101	485.173	275.818	462.187	321.273	109.856	149.690
R.S.D.%		68	35	23	30	26	66	51
Min		603.421	1051.151	1006.985	1212.371	995.001	88.530	188.293
Max		1736.349	1737.289	1397.050	1866.003	1449.350	243.889	399.986
n		2	2	2	2	2	2	2
Average	3	934.1805	1335.0855	1127.9220	1286.1401	1147.6583	320.4042	228.7715
St. Dev.		698.2488	358.0320	233.4697	546.7235	261.2786	278.1401	154.9921
R.S.D.%		75	27	21	43	23	87	68
Min		462.7718	1051.1506	979.7313	780.0457	995.0009	88.5301	98.0347
Max		1736.3491	1737.2887	1397.0501	1866.0027	1449.3496	628.7931	399.9864
n		3	3	3	3	3	3	3

BRH PES 1	Dynes/cm ²	INP, ng/l	DBA, ng/l	BPE, ng/l	Σ PAHs, ng/l
2/27/92-0,0	0	0.00	0.00	0.00	872.90
3/10/92-0,0	0	0.00	33.63	0.00	1109.00
Average	0	0.000	16.817	0.000	990.954
St. Dev.		0.000	23.783	0.000	166.947
R.S.D.%		#DIV/0!	141	#DIV/0!	17
Min		0.000	0.000	0.000	872.905
Max		0.000	33.634	0.000	1109.003
n		2	2	2	2
3/2/92-2,1-A	2	LOST	LOST	LOST	LOST
3/2/92-2,1-B	2	1535.67	405.46	1574.62	18769.56
Average	2	1535.665	405.461	1574.618	18769.581
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		1535.665	405.461	1574.618	18769.581
Max		1535.665	405.461	1574.618	18769.581
n		1	1	1	1
3/2/92-2,2-A	2	970.59	0.00	1242.71	12673.10
3/2/92-2,2-B	2	12.67	0.00	1092.73	6484.70
Average	2	491.631	0.000	1167.722	9578.902
St. Dev.		677.348	0.000	106.052	4375.856
R.S.D.%		138	#DIV/0!	9	46
Min		12.674	0.000	1092.732	6484.705
Max		970.588	0.000	1242.712	12673.099
n		2	2	2	2
3/4/92-2,1-A	2	437.00	34.60	473.00	16268.40
3/4/92-2,1-B	2	LOST	LOST	LOST	LOST
Average	2	437.000	34.600	473.000	16268.400
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		437.000	34.600	473.000	16268.400
Max		437.000	34.600	473.000	16268.400
n		1	1	1	1
Average	2	738.982	110.015	1095.765	13548.946
St. Dev.		660.066	197.638	461.425	5332.950
R.S.D.%		89	180	42	39
Min		12.674	0.000	473.000	6484.705
Max		1535.665	405.461	1574.618	18769.581
n		4	4	4	4
3/10/92-3,1-A	3	LOST	LOST	LOST	LOST
3/10/92-3,1-B	3	457.70	0.00	617.42	11592.70
Average	3	457.701	0.000	617.417	11592.699
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
R.S.D.%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		457.701	0.000	617.417	11592.699
Max		457.701	0.000	617.417	11592.699
n		1	1	1	1
3/10/92-3,2-A	3	361.58	747.98	867.57	13660.80
3/10/92-3,2-B	3	26.08	942.60	0.00	20815.22
Average	3	193.830	845.290	433.784	17238.011
St. Dev.		237.239	137.614	613.464	5058.933
R.S.D.%		122	16	141	29
Min		26.076	747.983	0.000	13660.805
Max		361.584	942.598	867.568	20815.217
n		2	2	2	2
Average	3	281.7869	563.5269	494.952	15356.2399
St. Dev.		226.6065	497.6351	446.5525	4839.3786
R.S.D.%		80	88	90	32
Min		26.0764	0.0000	0.0000	11592.6986
Max		457.7006	942.5979	867.5685	20815.2166
n		3	3	3	3

APPENDIX 2. BLACK ROCK HARBOR PES 2 DATA (BRH PES 2)

BRH PES	Dynas/cm ²	Time, min	Filter#	Amst Filtered, g	Vol Filtered, ml	TSS, mg/L	CB0005, mg/g	CB0018, mg/g	CB0025, mg/g
2/27/92-0.0-A	0	0	4	0.0004	30	12.00	1712.73	0.00	0.00
2/27/92-0.0-B	0	0	5	0.0033	30	106.00	76.68	0.00	0.00
Average				0.003	30	59.00	894.70	0.00	0.00
St. Dev.				0.003	0	66.47	1156.86	0.00	0.00
% RSD				113	0	112.66	129.30	#DEV/01	#DEV/01
Min				0.0004	30	12.00	76.68	0.00	0.00
Max				0.0033	30	106.00	1712.73	0.00	0.00
"				2	2	2	2	2	2
3/10/92-0.0	0	0	20	0.0099	100	99.00	7.23	0.00	0.00
3/18/92-0.0	0	0	377	0.0056	100	56.00	LOBT	LOBT	LOBT
3/10&18 not compared									
Average				0.005	75	68.25	598.88	0.00	0.00
St. Dev.				0.004	29	43.33	963.25	0.00	0.00
% RSD				71	38	63.78	161.18	#DEV/01	#DEV/01
Min				0.0004	30	12.00	7.23	0.00	0.00
Max				0.0099	100	106.00	1712.73	0.00	0.00
"				4	4	4	3	3	3
3/2/92-2.1-A	2	25	11	0.0667	50	1334.00	10.08	0.00	2.94
3/2/92-2.1-B	2	25	12	0.0679	50	1358.00	5.53	9.46	1.80
Average				0.067	50	1346.00	7.82	4.73	2.37
St. Dev.				0.001	0	16.97	3.20	6.69	0.80
% RSD				1	0	1.26	40.93	141.42	33.86
Min				0.0667	30	1334.00	5.53	0.00	1.80
Max				0.0679	50	1358.00	10.08	9.46	2.94
"				2	2	2	2	2	2
3/2/92-2.2-A	2	50	14	0.0720	50	1440.00	17.14	6.40	0.00
3/2/92-2.2-B	2	50	13	0.0729	50	1458.00	18.18	16.92	0.00
Average				0.072	50	1449.00	17.66	11.66	0.00
St. Dev.				0.001	0	12.73	0.74	7.43	0.00
% RSD				1	0	0.88	4.16	63.74	#DEV/01
Min				0.0720	30	1440.00	17.14	6.40	0.00
Max				0.0729	50	1458.00	18.18	16.92	0.00
"				2	2	2	2	2	2
3/4/92-3.1-A	2	25	16	0.0426	50	832.00	9.25	11.37	0.00
3/4/92-3.1-B	2	25	17	0.0427	50	854.00	6.17	7.04	0.00
Average				0.043	50	853.00	7.71	9.21	0.00
St. Dev.				0.000	0	1.41	2.18	3.06	0.00
% RSD				0	0	0.17	28.25	33.20	#DEV/01
Min				0.0426	30	832.00	6.17	7.04	0.00
Max				0.0427	50	854.00	9.25	11.37	0.00
"				2	2	2	2	2	2
Average				0.041	50	1216.00	11.06	8.33	0.79
St. Dev.				0.014	0	285.09	5.41	5.63	1.28
% RSD				23	0	23.44	48.67	66.04	161.44
Min				0.0426	30	832.00	5.53	0.00	0.00
Max				0.0729	50	1458.00	18.18	16.92	2.94
"				6	6	6	6	6	6
3/10/92-3.1-A	3	25	21	0.0309	50	1018.00	1.70	2.43	0.00
3/10/92-3.1-B	3	25	35	0.0496	50	992.00	2.45	3.67	0.00
Average				0.030	50	1005.00	2.07	3.05	0.00
St. Dev.				0.001	0	18.38	0.53	0.86	0.00
% RSD				2	0	1.83	25.62	28.81	#DEV/01
Min				0.0496	50	992.00	1.70	2.43	0.00
Max				0.0309	50	1018.00	2.45	3.67	0.00
"				2	2	2	2	2	2
3/10/92-3.2-A	3	50	34	0.0399	50	1118.00	0.00	2.36	0.00
3/10/92-3.2-B	3	50	33	0.0519	50	1038.00	1.87	2.04	0.00
Average				0.054	50	1078.00	0.94	2.21	0.00
St. Dev.				0.003	0	56.57	1.32	0.35	0.00
% RSD				5	0	5.25	141.42	11.14	#DEV/01
Min				0.0519	30	1038.00	0.00	2.04	0.00
Max				0.0399	50	1118.00	1.87	2.36	0.00
"				2	2	2	2	2	2
Average				0.032	50	1041.50	1.51	2.63	0.00
St. Dev.				0.003	0	54.37	1.05	0.71	0.00
% RSD				5	0	5.22	70.00	27.18	#DEV/01
Min				0.0496	50	992.00	0.00	2.04	0.00
Max				0.0399	50	1118.00	2.45	3.67	0.00
"				4	4	4	4	4	4
4.1-B (E1-3)	4	25	Σ36-33	0.5730	50	11440.00	10.17	1.93	1.93
3/18/92-4.2-A	4	50	39	0.3777	25	15108.00	6.36	12.49	0.45
3/18/92-4.2-B	4	50	40	0.3498	25	14792.00	6.45	13.49	0.50
Average				0.374	25	14950.00	6.51	12.85	0.48
St. Dev.				0.036	0	223.45	0.20	0.91	0.04
% RSD				1	0	1.49	3.15	7.77	7.69
Min				0.3498	25	14792.00	6.36	12.21	0.45
Max				0.3777	25	15108.00	6.45	13.49	0.50
"				2	2	2	2	2	2
Average				0.440	13	13786.67	7.73	15.12	0.96
St. Dev.				0.115	14	3211.4	2.12	3.98	0.84
% RSD				26	43	23.44	27.42	26.35	87.16
Min				0.3498	25	14792.00	6.36	12.21	0.45
Max				0.5730	50	11440.00	10.17	19.66	1.93
"				3	3	3	3	3	3

BRH PES2	Dynes/cm ²	CB038, ng/g	CB028, ng/g	CB062, ng/g	CB104, ng/g	CB044, ng/g	CB066, ng/g	CB101, ng/g	CB007, ng/g
2/27/92-0.0-A	0	65.04	0.00	0.00	0.00	0.00	96.06	109.17	0.00
2/27/92-0.0-B	0	26.59	7.85	0.00	0.00	0.00	4.74	26.46	0.00
Average		45.81	3.93	0.00	0.00	0.00	50.40	67.81	0.00
St. Dev.		27.19	5.55	0.00	0.00	0.00	64.58	58.48	0.00
% RSD		59.35	141.42	#DIV/0!	#DIV/0!	#DIV/0!	128.13	86.25	#DIV/0!
Min		26.59	0.00	0.00	0.00	0.00	4.74	26.46	0.00
Max		65.04	7.85	0.00	0.00	0.00	96.06	109.17	0.00
n		2	2	2	2	2	2	2	2
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared									
Average		70.54	2.62	0.00	0.00	0.00	33.60	45.21	0.00
St. Dev.		32.70	4.53	0.00	0.00	0.00	54.15	56.95	0.00
% RSD		107.07	173.21	#DIV/0!	#DIV/0!	#DIV/0!	161.15	125.97	#DIV/0!
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		65.04	7.85	0.00	0.00	0.00	96.06	109.17	0.00
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	69.90	71.84	51.26	0.00	14.31	39.74	92.05	32.68
3/2/92-2.1-B	2	56.93	58.24	46.70	2.61	13.84	38.69	90.23	32.64
Average		63.42	65.04	48.98	1.31	14.08	39.21	91.14	32.66
St. Dev.		9.17	9.62	3.22	1.85	0.33	0.74	1.29	0.03
% RSD		14.46	14.78	6.57	141.42	2.36	1.89	1.41	0.09
Min		56.93	58.24	46.70	0.00	13.84	38.69	90.23	32.64
Max		69.90	71.84	51.26	2.61	14.31	39.74	92.05	32.68
n		2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	59.34	58.93	36.51	4.39	4.09	31.26	88.05	31.42
3/2/92-2.2-B	2	78.97	81.57	67.86	6.59	25.13	46.66	111.38	42.03
Average		69.16	70.25	52.19	5.49	14.61	38.96	99.71	36.72
St. Dev.		13.88	16.01	22.17	1.56	14.88	10.89	16.30	7.51
% RSD		20.07	22.79	42.48	28.35	101.80	27.96	16.54	20.44
Min		59.34	58.93	36.51	4.39	4.09	31.26	88.05	31.42
Max		78.97	81.57	67.86	6.59	25.13	46.66	111.38	42.03
n		2	2	2	2	2	2	2	2
1/4/92-2.1-A	2	64.97	65.73	44.32	0.00	6.40	38.26	89.82	27.98
1/4/92-2.1-B	2	58.47	58.93	44.26	11.61	7.98	37.74	93.79	29.13
Average		61.72	62.33	44.29	5.80	7.19	38.00	91.81	28.56
St. Dev.		4.60	4.80	0.04	8.21	1.12	0.37	2.81	0.82
% RSD		7.45	7.71	0.08	141.42	15.51	0.97	3.06	2.84
Min		58.47	58.93	44.26	0.00	6.40	37.74	89.82	27.98
Max		64.97	65.73	44.32	11.61	7.98	38.26	93.79	29.13
n		2	2	2	2	2	2	2	2
Average		64.77	65.87	48.49	4.20	11.96	38.72	94.22	32.65
St. Dev.		8.47	9.34	10.63	4.44	7.63	8.63	8.63	4.97
% RSD		13.08	14.18	21.93	105.65	63.80	12.70	9.16	15.24
Min		56.95	58.24	36.51	0.00	4.09	31.26	88.05	27.98
Max		78.97	81.57	67.86	11.61	25.13	46.66	111.38	42.03
n		6	6	6	6	6	6	6	6
3/10/92-3.1-A	3	44.46	45.27	31.42	5.87	3.24	30.76	78.34	26.19
3/10/92-3.1-B	3	55.25	55.87	43.51	13.05	5.98	36.40	94.80	29.21
Average		49.85	50.57	37.46	9.46	4.61	33.58	86.57	27.70
St. Dev.		7.63	7.50	8.55	5.08	1.94	3.99	11.64	2.14
% RSD		15.30	14.83	22.83	53.68	42.11	11.87	13.43	7.71
Min		44.46	45.27	31.42	5.87	3.24	30.76	78.34	26.19
Max		55.25	55.87	43.51	13.05	5.98	36.40	94.80	29.21
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	54.38	55.20	44.24	0.00	7.29	35.05	92.09	27.83
3/10/92-3.2-B	3	62.28	60.67	42.55	11.73	0.16	34.04	97.97	30.54
Average		58.33	57.94	43.39	5.87	3.72	34.55	95.03	29.19
St. Dev.		5.58	3.87	1.19	8.30	5.04	0.71	4.16	1.92
% RSD		9.57	6.67	2.75	141.42	135.25	2.05	4.38	6.57
Min		54.38	55.20	42.55	0.00	0.16	34.04	92.09	27.83
Max		62.28	60.67	44.24	11.73	7.29	35.05	97.97	30.54
n		2	2	2	2	2	2	2	2
Average		54.09	54.25	40.43	7.66	4.17	34.06	90.80	28.44
St. Dev.		7.33	6.47	6.05	5.99	1.16	2.40	8.65	1.87
% RSD		13.55	11.92	14.96	78.13	27.79	7.06	9.53	6.56
Min		44.46	45.27	31.42	0.00	0.16	30.76	78.34	26.19
Max		62.28	60.67	44.24	13.05	7.29	36.40	97.97	30.54
n		4	4	4	4	4	4	4	4
4.1-B (21-3)	4	74.67	78.92	58.27	2.79	30.72	45.67	91.11	42.57
3/18/92-4.2-A	4	56.73	59.96	44.34	1.80	21.32	36.67	74.14	34.88
3/18/92-4.2-B	4	53.70	56.73	43.56	1.47	23.76	36.14	71.85	37.09
Average		55.21	58.35	43.95	1.63	22.54	36.40	72.99	35.99
St. Dev.		2.14	2.28	0.55	0.24	1.72	0.37	1.61	1.56
% RSD		3.88	3.91	1.25	14.45	7.63	1.02	2.21	4.34
Min		53.70	56.73	43.56	1.47	21.32	36.14	71.85	34.88
Max		56.73	59.96	44.34	1.80	23.76	36.67	74.14	37.09
n		2	2	2	2	2	2	2	2
Average		61.70	65.21	48.72	2.02	25.27	39.49	79.03	38.18
St. Dev.		11.33	11.99	8.28	0.69	4.88	5.36	10.52	3.96
% RSD		18.37	18.38	16.99	34.12	19.30	13.56	13.31	10.36
Min		53.70	56.73	43.56	1.47	21.32	36.14	71.85	34.88
Max		74.67	78.92	58.27	2.79	30.72	45.67	91.11	42.57
n		3	3	3	3	3	3	3	3

BRH PES2	Dynes/cm ²	CB077, ng/g	CB154, ng/g	CB118, ng/g	CB188, ng/g	CB153, ng/g	CB186, ng/g	CB138, ng/g	CB126, ng/g
2/27/92-0.0-A	0	0.00	391.69	675.05	0.00	217.05	25.04	0.00	0.00
2/27/92-0.0-B	0	0.00	30.00	30.00	0.00	0.00	0.00	0.00	0.00
Average		0.00	210.85	352.56	0.00	108.52	12.32	0.00	0.00
St. Dev.		0.00	255.75	456.06	0.00	153.47	17.71	0.00	0.00
% RSD		#DIV/0!	121.30	129.36	#DIV/0!	141.42	141.42	#DIV/0!	#DIV/0!
Min		0.00	30.00	30.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	391.69	675.05	0.00	217.05	25.04	0.00	0.00
n		2	2	2	2	2	2	2	2
3/10/92-0.0	0	10.00	7.43	4.98	2.82	0.00	0.00	0.00	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared									
Average		3.33	143.04	236.70	0.94	72.35	8.35	0.00	0.00
St. Dev.		5.77	215.63	379.82	1.63	125.31	14.46	0.00	0.00
% RSD		173.21	150.75	160.46	173.21	173.21	173.21	#DIV/0!	#DIV/0!
Min		0.00	7.43	4.98	0.00	0.00	0.00	0.00	0.00
Max		10.00	391.69	675.05	2.82	217.05	25.04	0.00	0.00
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	7.50	52.18	131.83	16.62	73.92	45.00	88.57	7.21
3/2/92-2.1-B	2	7.59	51.64	132.80	15.30	72.23	46.78	85.79	6.84
Average		7.55	51.91	132.31	15.96	73.08	45.89	87.18	7.03
St. Dev.		0.06	0.38	0.68	0.94	1.19	1.24	1.97	0.26
% RSD		0.85	0.73	0.52	5.86	1.63	2.75	2.24	3.72
Min		7.50	51.64	131.83	15.30	72.23	45.00	85.79	6.84
Max		7.59	52.18	132.80	16.62	73.92	46.78	88.57	7.21
n		2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	5.14	50.10	130.02	15.91	67.46	44.02	88.89	8.49
3/2/92-2.2-B	2	11.48	65.56	132.10	17.49	78.90	55.42	90.64	9.74
Average		8.31	57.83	106.06	16.70	73.18	49.72	89.76	9.12
St. Dev.		4.49	10.93	33.88	1.11	8.09	8.06	1.23	0.88
% RSD		53.99	18.90	31.95	6.66	11.06	16.21	1.37	9.69
Min		5.14	50.10	82.10	15.91	67.46	44.02	88.89	8.49
Max		11.48	65.56	130.02	17.49	78.90	55.42	90.64	9.74
n		2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	3.99	45.06	125.68	15.06	68.39	41.15	78.47	5.90
3/4/92-2.1-B	2	12.38	48.14	127.70	15.86	69.89	42.03	75.92	5.61
Average		8.19	46.60	126.69	15.46	69.14	41.59	77.19	5.75
St. Dev.		5.93	2.18	1.43	0.57	1.06	0.62	1.81	0.20
% RSD		72.45	4.68	1.13	3.67	1.54	1.49	2.34	3.55
Min		3.99	45.06	125.68	15.06	68.39	41.15	75.92	5.61
Max		12.38	48.14	127.70	15.86	69.89	42.03	78.47	5.90
n		2	2	2	2	2	2	2	2
Average		3.02	52.11	121.69	16.04	71.80	45.73	84.71	7.30
St. Dev.		3.35	7.08	19.57	0.89	4.22	5.16	6.08	1.58
% RSD		41.75	13.59	16.08	5.58	5.88	11.28	7.18	21.61
Min		3.99	45.06	82.10	15.06	67.46	41.15	75.92	5.61
Max		12.38	65.56	132.80	17.49	78.90	55.42	90.64	9.74
n		1	6	6	6	6	6	6	6
3/10/92-3.1-A	3	4.31	38.75	115.39	14.92	69.22	37.82	77.13	7.86
3/10/92-3.1-B	3	4.92	45.64	130.79	16.05	72.61	43.34	82.66	6.70
Average		4.62	42.20	123.19	15.49	70.91	40.58	79.90	7.28
St. Dev.		0.44	4.87	10.75	0.80	2.40	3.90	3.91	0.82
% RSD		9.63	11.54	8.73	5.14	3.38	9.62	4.90	11.22
Min		4.31	38.75	115.39	14.92	69.22	37.82	77.13	6.70
Max		4.92	45.64	130.79	16.05	72.61	43.34	82.66	7.86
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	4.25	42.34	130.30	16.46	76.10	43.51	77.23	5.12
3/10/92-3.2-B	3	2.42	52.65	144.06	17.94	73.48	48.21	86.20	7.43
Average		3.45	47.50	137.19	17.20	74.79	45.86	81.72	6.28
St. Dev.		1.18	7.29	9.74	1.05	1.85	3.33	6.34	1.63
% RSD		34.21	15.36	7.10	6.11	2.48	7.25	7.76	26.00
Min		3.02	42.34	130.30	16.46	73.48	43.51	77.23	5.12
Max		4.28	52.45	144.08	17.94	76.10	48.21	86.20	7.43
n		2	2	2	2	2	2	2	2
Average		4.08	44.85	130.19	16.34	72.85	43.22	80.81	6.78
St. Dev.		0.99	5.92	11.64	1.25	2.84	4.25	4.43	1.20
% RSD		24.52	13.19	8.94	7.64	3.90	9.83	5.48	17.73
Min		2.63	38.75	115.39	14.92	69.22	37.82	77.13	5.12
Max		4.92	52.65	144.08	17.94	76.10	48.21	86.20	7.86
n		4	4	4	4	4	4	4	4
4.1-B (3.1-B)	4	12.11	60.04	138.04	14.30	70.80	62.21	92.37	5.76
3/18/92-4.2-A	4	9.08	48.73	115.43	12.39	62.55	50.18	81.75	6.01
3/18/92-4.2-B	4	10.24	53.66	118.75	12.13	62.38	56.21	10.31	6.32
Average		9.66	51.19	117.08	12.76	62.47	53.20	46.03	6.17
St. Dev.		0.82	3.49	2.35	0.18	0.12	4.24	30.22	0.22
% RSD		8.49	6.81	2.00	1.48	0.19	8.02	109.74	3.54
Min		9.08	48.73	115.43	12.13	62.38	50.18	10.31	6.01
Max		10.24	53.66	118.75	12.39	62.55	56.21	81.75	6.32
n		2	2	2	2	2	2	2	2
Average		11.48	54.14	124.08	12.94	65.24	56.20	61.48	6.03
St. Dev.		7.73	5.67	12.21	1.19	4.81	6.01	44.63	0.28
% RSD		67.59	10.48	9.84	9.16	7.38	10.70	72.59	4.64
Min		9.08	48.73	115.43	12.13	62.38	50.18	10.31	5.76
Max		12.11	60.04	138.04	14.30	70.80	62.21	92.37	6.72
n		1	1	1	1	1	1	1	1

BRH PES2	Dynes/cm ²	CB187, ng/g	CB128, ng/g	CB208, ng/g	CB188, ng/g	CB178, ng/g	CB156, ng/g	CB206, ng/g	CB209, ng/g
2/27/92-0.0-A	0	0.00	0.00	0.00	66.43	0.00	0.00	0.00	0.00
2/27/92-0.0-B	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average		0.00	0.00	0.00	33.22	0.00	0.00	0.00	0.00
St. Dev.		0.00	0.00	0.00	46.97	0.00	0.00	0.00	0.00
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	141.42	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	0.00	0.00	66.43	0.00	0.00	0.00	0.00
n		2	2	2	2	2	2	2	2
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared									
Average		0.00	0.00	0.00	22.14	0.00	0.00	0.00	0.00
St. Dev.		0.00	0.00	0.00	38.35	0.00	0.00	0.00	0.00
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	173.21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	0.00	0.00	66.43	0.00	0.00	0.00	0.00
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	20.54	12.68	0.00	27.47	18.94	4.95	3.83	5.04
3/2/92-2.1-B	2	18.61	12.72	0.00	28.84	9.24	2.92	1.85	4.92
Average		19.57	12.70	0.00	28.15	14.09	3.93	2.84	4.98
St. Dev.		1.37	0.03	0.00	0.97	6.85	1.44	1.40	0.09
% RSD		6.99	0.24	#DIV/0!	3.43	48.45	36.55	49.30	1.78
Min		18.61	12.68	0.00	27.47	9.24	2.92	1.85	4.92
Max		20.54	12.72	0.00	28.84	18.94	4.95	3.83	5.04
n		2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	15.78	11.05	0.00	26.22	14.27	10.73	0.13	8.87
3/2/92-2.2-B	2	19.36	16.76	4.50	29.41	16.05	4.89	2.79	4.51
Average		17.82	13.90	2.25	27.82	15.16	7.81	1.46	6.69
St. Dev.		2.89	4.04	3.18	2.26	1.25	4.13	1.88	3.08
% RSD		16.20	29.05	141.42	8.11	8.26	52.84	129.08	46.10
Min		15.78	11.05	0.00	26.22	14.27	4.89	0.13	4.51
Max		19.36	16.76	4.50	29.41	16.05	10.73	2.79	8.87
n		2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	16.36	10.15	0.00	26.05	7.73	6.09	0.00	2.60
3/4/92-2.1-B	2	14.16	10.60	0.00	26.60	4.58	6.49	0.30	2.47
Average		15.26	10.38	0.00	26.33	6.16	6.29	0.15	2.54
St. Dev.		1.56	0.32	0.00	0.39	2.23	0.28	0.21	0.09
% RSD		10.20	3.07	#DIV/0!	1.47	36.23	4.45	141.42	3.53
Min		14.16	10.15	0.00	26.05	4.58	6.09	0.00	2.47
Max		16.36	10.60	0.00	26.60	7.73	6.49	0.30	2.60
n		2	2	2	2	2	2	2	2
Average		17.55	12.33	0.75	27.43	11.80	6.01	1.48	4.74
St. Dev.		2.51	2.42	1.84	1.41	5.48	2.62	1.60	2.32
% RSD		14.28	19.62	244.95	5.14	46.46	43.66	107.83	49.01
Min		14.16	10.15	0.00	26.05	4.58	2.92	0.00	2.47
Max		20.54	16.76	4.50	29.41	18.94	10.73	3.83	8.87
n		6	6	6	6	6	6	6	6
3/10/92-3.1-A	3	16.09	14.44	0.00	26.90	8.93	4.99	3.00	4.26
3/10/92-3.1-B	3	18.43	10.10	0.00	28.49	16.00	7.11	10.58	7.06
Average		17.26	12.27	0.00	27.69	12.46	6.05	6.79	5.66
St. Dev.		1.65	3.07	0.00	1.13	4.74	1.50	5.36	1.98
% RSD		9.59	25.02	#DIV/0!	4.07	40.07	24.83	78.93	34.92
Min		16.09	10.10	0.00	26.90	8.93	4.99	3.00	4.26
Max		18.43	14.44	0.00	28.49	16.00	7.11	10.58	7.06
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	17.71	10.86	0.00	28.31	8.47	4.71	1.10	3.81
3/10/92-3.2-B	3	16.43	11.73	0.00	29.48	15.77	7.66	1.44	10.27
Average		17.07	11.29	0.00	28.89	12.12	6.18	1.27	7.04
St. Dev.		0.90	0.62	0.00	0.83	5.16	2.09	0.24	4.57
% RSD		5.29	5.47	#DIV/0!	2.84	42.56	33.75	19.12	64.85
Min		16.43	10.86	0.00	28.31	8.47	4.71	1.10	3.81
Max		17.71	11.73	0.00	29.48	15.77	7.66	1.44	10.27
n		2	2	2	2	2	2	2	2
Average		17.16	11.78	0.00	28.29	12.29	6.12	4.03	6.35
St. Dev.		1.09	1.89	0.00	1.07	4.15	1.49	4.44	2.98
% RSD		6.37	16.06	#DIV/0!	3.77	33.76	24.31	110.27	46.94
Min		16.09	10.10	0.00	26.90	8.47	4.71	1.10	3.81
Max		18.43	14.44	0.00	29.48	16.00	7.66	10.58	10.27
n		4	4	4	4	4	4	4	4
4.1-B (Σ1-3)	4	19.33	17.73	4.05	29.01	16.19	5.90	6.41	4.38
3/18/92-4.2-A	4	17.24	14.28	1.98	27.43	14.38	4.83	9.32	3.87
3/18/92-4.2-B	4	17.37	16.24	1.99	28.12	15.83	4.43	6.20	4.10
Average		17.31	15.26	2.79	27.77	15.11	4.63	7.76	3.98
St. Dev.		0.09	1.39	1.41	0.49	1.02	0.28	2.20	0.16
% RSD		0.54	9.10	47.07	1.76	6.77	6.12	28.39	4.08
Min		17.24	14.28	1.99	27.43	14.38	4.43	6.20	3.87
Max		17.37	16.24	3.98	28.12	15.83	4.83	9.32	4.10
n		2	2	2	2	2	2	2	2
Average		17.97	16.08	3.34	28.18	15.47	5.05	7.31	4.12
St. Dev.		1.15	1.73	1.17	0.79	0.96	0.76	1.74	0.26
% RSD		6.41	10.78	35.00	2.81	6.18	14.97	23.86	6.28
Min		17.24	14.28	1.99	27.43	14.38	4.43	6.20	3.87
Max		19.30	17.73	4.05	29.01	16.19	5.90	9.41	4.38
n		3	3	3	3	3	3	3	3

BRH PES2	Dynes/cm ²	CB mm, ng/g	ECB, ng/g	HEPT, ng/g	ALDRIN, ng/g	OP'DDE, ng/g	DELDRLN, ng/g	PP'DDE, ng/g
2/27/92-0.0-A	0	3358.25	1680.56	0.00	0.00	0.00	4.20	0.00
2/27/92-0.0-B	0	202.39	109.64	0.00	0.00	0.00	3.27	36.53
Average		1780.32	895.10	0.00	0.00	0.00	3.74	18.26
St. Dev.		2231.53	1110.81	0.00	0.00	0.00	0.66	25.83
% RSD		125.34	124.10	#DIV/0!	#DIV/0!	#DIV/0!	17.58	141.42
Min		202.39	109.64	0.00	0.00	0.00	3.27	0.00
Max		3358.25	1680.56	0.00	0.00	0.00	4.20	36.53
n		2	2	2	2	2	2	2
3/10/92-0.0	0	32.46	79.43	0.00	9.15	0.00	6.84	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared								
Average		1197.70	623.21	0.00	3.05	0.00	4.77	12.18
St. Dev.		1873.02	915.82	0.00	5.28	0.00	1.85	21.09
% RSD		156.38	146.95	#DIV/0!	173.21	#DIV/0!	38.81	173.21
Min		32.46	79.43	0.00	0.00	0.00	3.27	0.00
Max		3358.25	1680.56	0.00	9.15	0.00	6.84	36.53
n		3	3	3	3	3	3	3
3/2/92-2.1-A	2	854.78	6.52	0.00	9.20	12.14	11.13	19.20
3/2/92-2.1-B	2	854.78	6.38	0.00	0.00	19.67	11.02	20.99
Average		877.93	26.45	0.00	4.60	15.91	11.07	20.10
St. Dev.		32.74	28.38	0.00	6.51	5.32	0.08	1.26
% RSD		3.73	107.32	#DIV/0!	141.42	33.45	0.68	6.28
Min		854.78	6.38	0.00	0.00	12.14	11.02	19.20
Max		901.08	46.52	0.00	9.20	19.67	11.13	20.99
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	834.61	17.65	0.00	0.00	18.50	11.73	39.83
3/2/92-2.2-B	2	1005.38	19.36	0.00	0.00	28.25	13.92	54.41
Average		920.00	18.51	0.00	0.00	23.37	12.82	47.12
St. Dev.		120.75	1.21	0.00	0.00	6.90	1.54	10.31
% RSD		13.13	6.55	#DIV/0!	#DIV/0!	29.50	12.04	21.88
Min		834.61	17.65	0.00	0.00	18.50	11.73	39.83
Max		1005.38	19.36	0.00	0.00	28.25	13.92	54.41
n		2	2	2	2	2	2	2
3/4/92-2.1-A	2	810.78	26.44	0.00	0.00	13.64	9.73	0.00
3/4/92-2.1-B	2	817.87	32.16	0.00	0.00	15.89	10.12	0.00
Average		814.32	29.30	0.00	0.00	14.76	9.92	0.00
St. Dev.		5.01	4.05	0.00	0.00	1.60	0.27	0.00
% RSD		0.62	13.81	#DIV/0!	#DIV/0!	10.81	2.76	#DIV/0!
Min		810.78	26.44	0.00	0.00	13.64	9.73	0.00
Max		817.87	32.16	0.00	0.00	15.89	10.12	0.00
n		2	2	2	2	2	2	2
Average		870.75	24.75	0.00	1.53	18.01	11.27	22.40
St. Dev.		73.48	13.77	0.00	3.76	5.76	1.48	21.65
% RSD		8.44	55.65	#DIV/0!	244.95	31.97	13.15	96.64
Min		810.78	6.38	0.00	0.00	12.14	9.73	0.00
Max		1005.38	46.52	0.00	9.20	28.25	13.92	54.41
n		6	6	6	6	6	6	6
3/10/92-3.1-A	3	713.87	10.56	0.00	0.00	8.42	3.92	29.54
3/10/92-3.1-B	3	840.68	36.24	0.00	0.00	10.95	10.06	34.19
Average		777.28	23.40	0.00	0.00	9.67	6.99	31.86
St. Dev.		89.67	18.16	0.00	0.00	1.78	4.34	3.29
% RSD		11.54	77.58	#DIV/0!	#DIV/0!	18.37	62.14	10.33
Min		713.87	10.56	0.00	0.00	8.42	3.92	29.54
Max		840.68	36.24	0.00	0.00	10.95	10.06	34.19
n		2	2	2	2	2	2	2
3/10/92-3.2-A	3	788.78	18.06	0.00	0.00	9.23	9.53	31.57
3/10/92-3.2-B	3	869.26	20.30	0.00	0.00	11.67	12.03	37.84
Average		829.02	19.18	0.00	0.00	10.45	10.78	34.71
St. Dev.		56.91	1.58	0.00	0.00	1.73	1.77	4.43
% RSD		6.86	8.24	#DIV/0!	#DIV/0!	16.53	16.43	12.78
Min		788.78	18.06	0.00	0.00	9.23	9.53	31.57
Max		869.26	20.30	0.00	0.00	11.67	12.03	37.84
n		2	2	2	2	2	2	2
Average		805.15	21.29	0.00	0.00	10.06	8.88	33.29
St. Dev.		65.21	10.80	0.00	0.00	1.50	3.48	3.59
% RSD		8.09	50.73	#DIV/0!	#DIV/0!	14.90	39.18	10.77
Min		713.87	10.56	0.00	0.00	8.42	3.92	29.54
Max		869.26	36.24	0.00	0.00	11.67	12.03	37.84
n		4	4	4	4	4	4	4
4.1-B (Σ1-3)	4	1015.07	6.83	0.89	0.00	34.32	14.28	54.68
3/18/92-4.2-A	4	830.32	5.56	0.48	0.00	21.95	7.97	43.62
3/18/92-4.2-B	4	769.25	4.62	0.52	0.00	26.35	8.48	48.62
Average		799.78	5.09	0.50	0.00	24.15	8.22	46.12
St. Dev.		43.18	0.66	0.03	0.00	3.11	0.36	3.53
% RSD		5.40	13.00	5.31	#DIV/0!	12.86	4.35	7.66
Min		769.25	4.62	0.48	0.00	21.95	7.97	43.62
Max		830.32	5.56	0.52	0.00	26.35	8.48	48.62
n		2	2	2	2	2	2	2
Average		871.55	5.67	0.63	0.00	27.54	10.24	48.98
St. Dev.		127.99	1.11	0.22	0.00	6.27	3.51	5.54
% RSD		14.69	19.55	35.88	#DIV/0!	22.77	34.22	11.31
Min		769.25	4.62	0.48	0.00	21.95	7.97	43.62
Max		1015.07	6.83	0.89	0.00	34.32	14.28	54.68
n		3	3	3	3	3	3	3

BRH / PES2	Dynac/cm*3	OP-DDD, ng/g	PP-DDD, ng/g	OP-DDT, ng/g	MIREX, ng/g	NAP, ng/g	2MN, ng/g	1MN, ng/g	SDP, ng/g
2/27/92-0.0-A	0	68.07	2148.62	0.00	20.23	460.00	0.00	0.00	3100.98
2/27/92-0.0-B	0	18.63	84.26	0.00	0.00	460.00	0.00	0.00	3100.98
Average		43.35	1116.44	0.00	10.11	460.00	0.00	0.00	3100.98
St. Dev.		34.96	1479.72	0.00	14.30	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
%RSD		80.64	130.15	#DIV/0!	141.42	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		18.63	84.26	0.00	0.00	460.00	0.00	0.00	3100.98
Max		68.07	2148.62	0.00	20.23	460.00	0.00	0.00	3100.98
n		2	2	2	2	1	1	1	1
3/10/92-0.0	0	4.61	10.62	0.00	0.00	0.00	0.00	0.00	561.73
3/18/92-0.0	0	LOST	LOST	LOST	LOST	1813.22	0.00	0.00	0.00
3/10&18 not compared									
Average		30.44	747.83	0.00	6.74	757.74	0.00	0.00	1220.90
St. Dev.		33.33	1213.68	0.00	11.68	942.57	0.00	0.00	1632.24
%RSD		109.52	162.29	#DIV/0!	173.21	124.39	#DIV/0!	#DIV/0!	133.33
Min		4.61	10.62	0.00	0.00	0.00	0.00	0.00	0.00
Max		68.07	2148.62	0.00	20.23	1813.22	0.00	0.00	3100.98
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	32.40	14.97	6.09	3.33	632.48	171.05	0.00	158.39
3/2/92-2.1-B	2	32.07	5.48	6.69	1.47	752.73	284.07	0.00	121.15
Average		32.24	10.23	6.39	2.40	692.60	227.56	0.00	139.77
St. Dev.		0.24	6.71	0.43	1.31	85.03	79.92	0.00	24.34
%RSD		0.73	65.61	6.67	54.64	12.28	35.12	#DIV/0!	18.84
Min		32.07	5.48	6.09	1.47	632.48	171.05	0.00	121.15
Max		32.40	14.97	6.69	3.33	752.73	284.07	0.00	158.39
n		2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	31.11	13.33	6.84	10.03	492.80	327.20	260.02	607.80
3/2/92-2.2-B	2	40.71	13.61	0.00	3.91				
Average		35.91	13.47	3.42	6.97	492.80	327.20	260.02	607.80
St. Dev.		6.79	0.20	4.84	4.32	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
%RSD		18.50	1.45	141.42	62.03	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		31.11	13.33	0.00	3.91	492.80	327.20	260.02	607.80
Max		40.71	13.61	6.84	10.03	492.80	327.20	260.02	607.80
n		2	2	2	2	1	1	1	1
3/4/92-2.1-A	2	27.98	10.42	4.40	5.26	546.16	54.39	11.75	268.91
3/4/92-2.1-B	2	29.89	10.62	8.99	3.79	514.22	70.45	24.66	130.16
Average		28.94	10.52	6.70	4.53	530.19	62.42	18.21	199.53
St. Dev.		1.35	0.14	3.24	1.04	22.59	11.34	9.12	98.11
%RSD		4.68	1.36	48.42	23.03	4.26	18.19	50.11	49.17
Min		27.98	10.42	4.40	3.79	514.22	54.39	11.75	130.16
Max		29.89	10.62	8.99	5.26	546.16	70.45	24.66	268.91
n		2	2	2	2	2	2	2	2
Average		32.36	11.40	5.30	4.63	587.68	181.43	59.29	257.28
St. Dev.		4.40	3.40	3.07	2.91	106.50	122.83	112.67	204.62
%RSD		13.59	29.85	55.83	62.86	18.12	67.76	190.05	79.53
Min		27.98	5.48	0.00	1.47	492.80	54.39	0.00	121.15
Max		40.71	14.97	8.99	10.03	752.73	327.20	260.02	607.80
n		6	6	6	6	5	5	5	5
3/10/92-3.1-A	3	24.07	4.65	0.00	2.95	562.11	146.34	0.00	26.30
3/10/92-3.1-B	3	28.34	10.80	6.11	5.20	1888.99	114.85	108.17	201.87
Average		26.20	7.72	3.06	4.08	1225.55	130.59	54.08	114.68
St. Dev.		3.02	4.35	4.32	1.39	938.25	22.27	76.49	124.14
%RSD		11.54	56.30	141.42	34.95	76.56	17.05	141.42	108.82
Min		24.07	4.65	0.00	2.95	562.11	114.85	0.00	26.30
Max		28.34	10.80	6.11	5.20	1888.99	146.34	108.17	201.87
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	26.29	8.15	0.00	2.58	467.67	634.33	274.42	371.70
3/10/92-3.2-B	3	32.70	20.59	11.82	13.14	559.05	137.63	64.93	101.83
Average		29.49	14.37	5.91	7.86	513.35	386.08	169.67	236.76
St. Dev.		4.53	8.80	8.36	7.46	64.60	351.36	148.13	190.83
%RSD		15.36	61.21	141.42	94.98	12.58	91.01	87.30	80.80
Min		26.29	8.15	0.00	2.58	467.67	137.63	64.93	101.83
Max		32.70	20.59	11.82	13.14	559.05	634.33	274.42	371.70
n		2	2	2	2	2	2	2	2
Average		27.85	11.05	4.48	5.97	869.45	258.34	111.88	175.42
St. Dev.		3.67	6.84	5.68	4.92	681.10	251.15	117.12	149.31
%RSD		13.19	61.93	126.83	82.40	78.34	97.22	104.69	85.11
Min		24.07	4.65	0.00	2.57	467.67	114.85	0.00	26.30
Max		32.70	20.59	11.82	13.14	1888.99	634.33	274.42	371.70
n		4	4	4	4	4	4	4	4
4.1-B (21-3)	4	37.28	18.71	6.89	1.92	305.88	173.31	129.67	62.99
3/18/92-4.2-A	4	30.26	5.00	5.24	1.07	320.30	155.72	82.36	71.78
3/18/92-4.2-B	4	33.32	5.17	5.67	1.15	105.17	40.30	22.11	49.67
Average		31.79	5.04	5.45	1.11	212.73	98.01	32.23	60.72
St. Dev.		2.17	0.17	0.39	0.05	152.12	81.62	42.60	15.63
%RSD		6.81	2.45	5.56	4.68	71.51	83.27	81.56	25.75
Min		30.26	5.00	5.24	1.07	105.17	40.30	22.11	49.67
Max		33.32	5.17	5.67	1.15	320.30	155.72	82.36	71.78
n		2	2	2	2	2	2	2	2
Average		33.62	9.62	5.95	1.38	243.11	123.11	78.04	61.48
St. Dev.		5.32	7.87	0.86	0.47	119.75	72.25	53.91	11.13
%RSD		10.48	81.73	14.47	33.79	49.26	58.69	69.08	18.11
Min		30.26	5.00	5.24	1.07	105.17	40.30	22.11	49.67
Max		37.28	18.71	6.89	1.92	320.30	173.31	129.67	71.78
n		3	3	3	3	3	3	3	3

BRH PES2	Dyn/cm ²	N, mg/g	0-2 µm (10-9 Ø) (fine clay) %	2-4 µm (9-8 Ø) (coarse clay) %	4-62 µm (8-4 Ø) (silt) %	62-300 µm (4-1.75 Ø) (fine to med sand) %	mm, %	Mode, µm
2/27/92-0.0-A	0	2.188						
2/27/92-0.0-B	0	4.800	0.00	2.67	51.64	45.70	100.01	97.25
Average		3.494	0.000	2.670	51.640	45.700	100.010	97.250
St. Dev.		1.847	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		53	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		2.1875	0.0000	2.6700	51.6400	45.7000	100.0100	97.2500
Max		4.8000	0.0000	2.6700	51.6400	45.7000	100.0100	97.2500
n		2	1	1	1	1	1	1
3/10/92-0.0	0	3.529						
3/18/92-0.0	0	5.377						
3/10&18 not compared								
Average		3.973	0.000	2.670	51.640	45.700	100.010	97.250
St. Dev.		1.419	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		36	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		2.1875	0.0000	2.6700	51.6400	45.7000	100.0100	97.2500
Max		5.3770	0.0000	2.6700	51.6400	45.7000	100.0100	97.2500
n		4	1	1	1	1	1	1
3/2/92-2.1-A	2	6.724						
3/2/92-2.1-B	2	6.275	0.00	9.77	86.53	3.71	100.01	10.50
Average		6.499	0.000	9.770	86.530	3.710	100.010	10.500
St. Dev.		0.318	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		6.2745	0.0000	9.7700	86.5300	3.7100	100.0100	10.5000
Max		6.7241	0.0000	9.7700	86.5300	3.7100	100.0100	10.5000
n		2	1	1	1	1	1	1
3/2/92-2.2-A	2	5.763						
3/2/92-2.2-B	2	8.409	0.00	9.19	88.96	1.85	100.00	10.50
Average		7.086	0.000	9.190	88.960	1.850	100.000	10.500
St. Dev.		1.871	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		26	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		5.7627	0.0000	9.1900	88.9600	1.8500	100.0000	10.5000
Max		8.4091	0.0000	9.1900	88.9600	1.8500	100.0000	10.5000
n		2	1	1	1	1	1	1
3/4/92-2.1-A	2	NA						
3/4/92-2.1-B	2	8.571	0.00	5.86	85.47	8.67	100.00	10.50
Average		8.571	0.000	5.860	85.470	8.670	100.000	10.500
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		8.5714	0.0000	5.8600	85.4700	8.6700	100.0000	10.5000
Max		8.5714	0.0000	5.8600	85.4700	8.6700	100.0000	10.5000
n		1	1	1	1	1	1	1
Average		7.148	0.000	8.273	86.987	4.743	100.003	10.500
St. Dev.		1.273	0.000	2.110	1.789	3.325	0.006	0.000
% RSD		18	#DIV/0!	26	2	74	0	0
Min		5.7627	0.0000	5.8600	85.4700	1.8500	100.0000	10.5000
Max		8.5714	0.0000	9.7700	88.9600	8.6700	100.0100	10.5000
n		5	3	3	3	3	3	3
3/10/92-3.1-A	3	10.667						
3/10/92-3.1-B	3	lost	0.00	5.22	80.04	14.74	100.00	10.50
Average		10.667	0.000	5.220	80.040	14.740	100.000	10.500
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		10.6667	0.0000	5.2200	80.0400	14.7400	100.0000	10.5000
Max		10.6667	0.0000	5.2200	80.0400	14.7400	100.0000	10.5000
n		1	1	1	1	1	1	1
3/10/92-3.2-A	3	7.317						
3/10/92-3.2-B	3	6.923	0.00	7.68	87.23	5.10	100.01	10.50
Average		7.120	0.000	7.680	87.230	5.100	100.010	10.500
St. Dev.		0.279	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
% RSD		4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		6.9231	0.0000	7.6800	87.2300	5.1000	100.0100	10.5000
Max		7.3171	0.0000	7.6800	87.2300	5.1000	100.0100	10.5000
n		2	1	1	1	1	1	1
Average		8.302	0.000	6.450	83.635	9.920	100.005	10.500
St. Dev.		2.037	0.000	1.739	3.084	6.817	0.007	0.000
% RSD		25	#DIV/0!	27	6	69	0	0
Min		5.9231	0.0000	5.2200	80.0400	5.1000	100.0000	10.5000
Max		10.6667	0.0000	7.6800	87.2300	14.7400	100.0100	10.5000
n		3	2	2	2	2	2	2
4.1-B (E1-3)	4	7.527	0.00	14.18	84.32	1.50	100.00	4.50
3/18/92-4.2-A	4	lost	0.00	6.25	77.98	15.77	100.00	15.49
3/18/92-4.2-B	4	7.744	0.00	2	69.34	27.13	99.99	135.82
Average		7.744	0.000	4.425	73.660	21.450	99.995	75.635
St. Dev.		#DIV/0!	0.000	1.950	6.109	8.033	0.007	85.086
% RSD		#DIV/0!	#DIV/0!	40	8	37	0	112
Min		7.7443	0.0000	3.5200	69.3400	15.7700	99.9900	15.4900
Max		7.7443	0.0000	6.2500	77.9800	27.1300	100.0000	135.8200
n		1	2	2	2	2	2	2
Average		7.637	0.000	7.981	77.280	14.733	99.997	51.957
St. Dev.		0.155	0.000	5.537	7.814	12.946	0.006	72.853
% RSD		2	#DIV/0!	69	10	88	0	140
Min		7.5275	0.0000	3.5200	69.3400	1.5000	99.9900	4.5000
Max		7.7443	0.0000	14.1800	84.3200	27.1300	100.0000	135.8200
n		2	1	1	1	1	1	1

BRH PES2	Dynes/cm ²	Median, μ m	Mean (vm), μ m	S.D. (vm), μ m	Coef (vm), %	CB400, μ g	CB418, μ g	CB429, μ g	CB480, μ g
2/27/92-0.0-A	0					1.03	0.00	0.00	0.04
2/27/92-0.0-B	0	30.60	32.12	32.28	47.26	0.41	0.00	0.00	0.14
Average		30.600	32.120	32.280	47.260	0.72	0.00	0.00	0.09
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.44	0.00	0.00	0.07
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	61.27	#DIV/0!	#DIV/0!	80.08
Min		30.6000	32.1200	32.2800	47.2600	0.41	0.00	0.00	0.04
Max		30.6000	32.1200	32.2800	47.2600	1.03	0.00	0.00	0.14
"		1	1	1	1	2	2	2	2
3/10/92-0.0	0					0.07	0.00	0.00	0.00
3/18/92-0.0	0					LOST	LOST	LOST	LOST
3/10&18 not compared									
Average		30.600	32.120	32.280	47.260	0.50	0.00	0.00	0.06
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.49	0.00	0.00	0.07
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	96.66	#DIV/0!	#DIV/0!	121.30
Min		30.6000	32.1200	32.2800	47.2600	0.07	0.00	0.00	0.00
Max		30.6000	32.1200	32.2800	47.2600	1.03	0.00	0.00	0.14
"		1	1	1	1	3	3	3	3
3/2/92-2.1-A	2					0.67	0.00	0.20	4.66
3/2/92-2.1-B	2	10.82	16.48	17.04	100.00	0.38	0.64	0.12	3.87
Average		10.820	16.480	17.040	100.000	0.52	0.32	0.16	4.26
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.21	0.45	0.05	0.56
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	99.78	141.42	32.67	13.21
Min		10.8200	16.4800	17.0400	100.0000	0.38	0.00	0.12	3.87
Max		10.8200	16.4800	17.0400	100.0000	0.67	0.64	0.20	4.66
"		1	1	1	1	2	2	2	2
3/2/92-2.2-A	2					1.23	0.46	0.00	4.27
3/2/92-2.2-B	2	10.68	16.06	15.63	100.00	1.33	1.23	0.00	5.76
Average		10.680	16.040	15.630	100.000	1.28	0.85	0.00	5.01
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.06	0.55	0.00	1.05
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.04	64.44	#DIV/0!	20.93
Min		10.6800	16.0400	15.6300	100.0000	1.23	0.46	0.00	4.27
Max		10.6800	16.0400	15.6300	100.0000	1.33	1.23	0.00	5.76
"		1	1	1	1	2	2	2	2
3/4/92-2.1-A	2					0.39	0.48	0.00	2.77
3/4/92-2.1-B	2	14.74	24.66	28.42	99.98	0.26	0.30	0.00	2.30
Average		14.740	24.660	28.420	99.980	0.33	0.39	0.00	2.63
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.09	0.13	0.00	0.19
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	28.09	33.05	#DIV/0!	7.28
Min		14.7400	24.6600	28.4200	99.9800	0.26	0.30	0.00	2.30
Max		14.7400	24.6600	28.4200	99.9800	0.39	0.48	0.00	2.77
"		1	1	1	1	2	2	2	2
Average		12.080	19.067	20.370	99.993	0.71	0.52	0.05	3.97
St. Dev.		2.305	4.849	7.008	0.012	0.46	0.41	0.09	1.22
% RSD		19	25	34	0	64.89	79.10	161.60	30.62
Min		10.6800	16.0400	15.6300	99.9600	0.26	0.00	0.00	2.30
Max		14.7400	24.6600	28.4200	100.0000	1.33	1.23	0.20	5.76
"		3	3	3	3	6	6	6	6
3/10/92-3.1-A	3					0.09	0.12	0.00	2.24
3/10/92-3.1-B	3	17.38	30.83	33.97	99.99	0.12	0.18	0.00	2.74
Average		17.380	30.830	33.970	99.990	0.10	0.15	0.00	1.30
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.02	0.04	0.00	0.34
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	23.85	27.05	#DIV/0!	13.49
Min		17.3800	30.8300	33.9700	99.9900	0.09	0.12	0.00	2.24
Max		17.3800	30.8300	33.9700	99.9900	0.12	0.18	0.00	2.74
"		1	1	1	1	2	2	2	2
3/10/92-3.2-A	3					0.00	0.13	0.00	3.04
3/10/92-3.2-B	3	11.78	19.25	21.79	99.99	0.10	0.11	0.00	3.23
Average		11.780	19.230	21.790	99.990	0.05	0.12	0.00	3.14
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.07	0.02	0.00	0.14
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	141.42	16.34	#DIV/0!	4.33
Min		11.7800	19.2500	21.7900	99.9900	0.00	0.11	0.00	3.04
Max		11.7800	19.2500	21.7900	99.9900	0.10	0.13	0.00	3.23
"		1	1	1	1	2	2	2	2
Average		14.580	25.040	27.880	99.980	0.08	0.14	0.00	2.82
St. Dev.		3.960	8.188	8.613	0.000	0.05	0.05	0.00	0.42
% RSD		27	33	31	0	69.39	23.97	#DIV/0!	14.96
Min		11.7800	19.2500	21.7900	99.9900	0.00	0.11	0.00	2.24
Max		17.3800	30.8300	33.9700	99.9900	0.12	0.18	0.00	3.23
"		2	2	2	2	4	4	4	4
4.1-B (11-3)	4	8.88	12.50	11.45	100.00	5.83	11.26	1.10	42.78
3/18/92-4.2-A	4	17.77	32.45	36.38	99.99	2.40	4.61	0.17	21.43
3/18/92-4.2-B	4	26.02	49.87	53.78	99.99	2.46	4.99	0.19	19.86
Average		21.895	41.160	45.080	99.990	2.43	4.80	0.18	20.54
St. Dev.		5.834	12.318	12.304	0.000	0.04	0.27	0.01	1.11
% RSD		27	30	27	0	1.65	5.58	6.20	5.37
Min		17.7700	32.4500	36.3800	99.9900	2.40	4.61	0.17	19.86
Max		26.0200	49.8700	53.7800	99.9900	2.46	4.99	0.19	21.43
"		2	2	2	2	2	2	2	2
Average		17.557	31.607	33.870	99.993	3.56	6.95	0.49	28.02
St. Dev.		8.572	18.699	21.276	0.006	1.96	3.74	0.53	12.81
% RSD		49	59	63	0	55.02	53.75	109.78	45.71
Min		8.8800	12.5000	11.4500	99.9900	2.40	4.61	0.17	19.86
Max		26.0200	49.8700	53.7800	100.0000	5.83	11.26	1.10	42.78
"		3	3	3	3	3	3	3	3

BRH PES2	Dynes/cm ²	CB028, ng	CB062, ng	CB104, ng	CB044, ng	CB066, ng	CB101, ng	CB007, ng	CB077, ng	CB154, ng
2/21/92-0,0-A	0	0.00	0.00	0.00	0.00	0.06	0.07	0.00	0.00	0.24
2/21/92-0,0-B	0	0.04	0.00	0.00	0.00	0.05	0.14	0.00	0.00	0.16
Average		0.02	0.00	0.00	0.00	0.04	0.10	0.00	0.00	0.20
St. Dev.		0.03	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.05
%RSD		141.42	#DIV/0!	#DIV/0!	#DIV/0!	55.61	51.34	#DIV/0!	#DIV/0!	27.26
Min		0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.00	0.16
Max		0.04	0.00	0.00	0.00	0.06	0.14	0.00	0.00	0.24
n		2	2	2	2	2	2	2	2	2
3/10/92-0,0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07
3/18/92-0,0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared										
Average		0.01	0.00	0.00	0.00	0.03	0.07	0.00	0.03	0.16
St. Dev.		0.02	0.00	0.00	0.00	0.03	0.07	0.00	0.06	0.08
%RSD		173.21	#DIV/0!	#DIV/0!	#DIV/0!	104.78	102.31	#DIV/0!	173.21	51.94
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Max		0.04	0.00	0.00	0.00	0.06	0.14	0.00	0.10	0.24
n		3	3	3	3	3	3	3	3	3
3/2/92-2,1-A	2	4.79	3.42	0.00	0.95	2.65	6.14	2.18	0.30	3.48
3/2/92-2,1-B	2	3.95	3.17	0.18	0.94	2.63	6.13	2.22	0.32	3.51
Average		4.37	3.29	0.09	0.95	2.64	6.13	2.20	0.31	3.49
St. Dev.		0.59	0.18	0.13	0.01	0.02	0.01	0.03	0.01	0.02
%RSD		13.54	5.31	141.42	1.10	0.63	0.15	1.17	2.11	0.53
Min		3.95	3.17	0.00	0.94	2.63	6.13	2.18	0.30	3.48
Max		4.79	3.42	0.18	0.95	2.65	6.14	2.22	0.32	3.51
n		2	2	2	2	2	2	2	2	2
3/2/92-2,2-A	2	4.24	2.63	0.32	0.29	2.25	6.34	2.26	0.37	3.61
3/2/92-2,2-B	2	5.95	4.95	0.48	1.83	3.40	8.12	3.06	0.84	4.78
Average		5.09	3.79	0.40	1.06	2.83	7.23	2.66	0.60	4.19
St. Dev.		1.20	1.64	0.12	1.09	0.81	1.26	0.57	0.33	0.83
%RSD		23.64	43.28	29.20	102.22	28.80	17.41	21.30	54.74	19.77
Min		4.24	2.63	0.32	0.29	2.25	6.34	2.26	0.37	3.61
Max		5.95	4.95	0.48	1.83	3.40	8.12	3.06	0.84	4.78
n		2	2	2	2	2	2	2	2	2
3/4/92-2,1-A	2	2.80	1.89	0.00	0.27	1.63	3.83	1.19	0.17	1.92
3/4/92-2,1-B	2	2.52	1.89	0.50	0.34	1.61	4.01	1.24	0.23	2.06
Average		2.66	1.89	0.25	0.31	1.62	3.92	1.22	0.35	1.99
St. Dev.		0.20	0.00	0.35	0.05	0.01	0.13	0.04	0.25	0.10
%RSD		7.54	0.08	141.42	15.68	0.80	3.23	3.02	72.57	4.84
Min		2.52	1.89	0.00	0.27	1.61	3.83	1.19	0.17	1.92
Max		2.80	1.89	0.50	0.34	1.63	4.01	1.24	0.23	2.06
n		2	2	2	2	2	2	2	2	2
Average		4.04	2.99	0.24	0.77	2.34	5.76	2.03	0.49	3.22
St. Dev.		1.27	1.15	0.21	0.61	0.69	1.61	0.71	0.22	1.08
%RSD		31.50	38.43	90.91	78.71	29.00	28.00	34.90	44.93	33.34
Min		2.52	1.89	0.00	0.27	1.61	3.83	1.19	0.17	1.92
Max		5.95	4.95	0.50	1.83	3.40	8.12	3.06	0.84	4.78
n		6	6	6	6	6	6	6	6	6
3/10/92-3,1-A	3	2.30	1.80	0.30	0.16	1.57	3.99	1.33	0.22	1.97
3/10/92-3,1-B	3	2.77	2.16	0.65	0.30	1.81	4.70	1.45	0.24	2.26
Average		2.54	1.88	0.47	0.23	1.69	4.34	1.39	0.23	2.12
St. Dev.		0.33	0.40	0.25	0.09	0.17	0.51	0.08	0.02	0.21
%RSD		13.02	21.04	52.11	40.43	10.03	11.63	5.88	7.61	9.72
Min		2.30	1.80	0.30	0.16	1.57	3.99	1.33	0.22	1.97
Max		2.77	2.16	0.65	0.30	1.81	4.70	1.45	0.24	2.26
n		2	2	2	2	2	2	2	2	2
3/10/92-3,2-A	3	3.09	2.47	0.00	0.41	1.96	5.15	1.56	0.24	2.37
3/10/92-3,2-B	3	3.15	2.21	0.61	0.01	1.77	5.08	1.59	0.14	2.37
Average		3.12	2.34	0.30	0.21	1.86	5.12	1.57	0.19	2.55
St. Dev.		0.04	0.19	0.43	0.28	0.14	0.04	0.02	0.07	0.26
%RSD		1.43	7.99	141.42	135.68	7.30	0.87	1.33	39.11	10.15
Min		3.09	2.21	0.00	0.01	1.77	5.08	1.56	0.14	2.37
Max		3.15	2.47	0.61	0.41	1.96	5.15	1.59	0.24	2.73
n		2	2	2	2	2	2	2	2	2
Average		2.83	2.11	0.39	0.21	1.77	4.73	1.48	0.21	2.33
St. Dev.		0.39	0.37	0.30	0.17	0.16	0.53	0.11	0.05	0.31
%RSD		13.80	17.41	77.82	78.44	9.12	11.27	7.73	24.05	13.43
Min		2.30	1.80	0.00	0.01	1.57	3.99	1.33	0.14	1.97
Max		3.15	2.47	0.65	0.41	1.96	5.15	1.59	0.24	2.73
n		4	4	4	4	4	4	4	4	4
4,1-B (Σ1-3)	4	45.22	33.39	1.60	17.60	26.17	32.20	24.39	6.94	34.40
3/18/92-4,2-A	4	22.65	16.75	0.68	8.05	13.85	28.00	13.18	3.43	18.40
3/18/92-4,2-B	4	20.96	16.11	0.54	8.79	13.37	26.57	13.72	3.79	19.84
Average		21.81	16.43	0.61	8.42	13.61	27.29	13.45	3.61	19.12
St. Dev.		1.18	0.45	0.10	0.52	0.34	1.01	0.54	0.23	1.02
%RSD		5.40	2.75	15.93	6.14	2.51	3.71	2.85	7.00	5.32
Min		20.96	16.11	0.54	8.05	13.37	26.57	13.18	3.43	18.40
Max		22.65	16.75	0.68	8.79	13.85	28.00	13.72	3.79	19.84
n		2	2	2	2	2	2	2	2	2
Average		29.62	22.08	0.94	11.48	17.79	35.59	17.10	4.72	24.12
St. Dev.		13.54	9.80	0.57	5.32	7.26	14.40	6.32	1.93	8.85
%RSD		45.72	44.37	51.10	46.29	40.78	40.47	37.00	40.99	36.55
Min		20.96	16.11	0.54	8.05	13.37	26.57	13.18	3.43	18.40
Max		45.22	33.39	1.60	17.60	26.17	32.20	24.39	6.94	34.40
n		3	3	3	1	1	3	3	1	1

BRH PES2	Dynes/cm ²	CB118, ng	CB188, ng	CB153, ng	CB166, ng	CB138, ng	CB126, ng	CB187, ng	CB128, ng	CB288, ng
2/27/92-0.0-A	0	0.41	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00
2/27/92-0.0-B	0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average		0.28	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00
St. Dev.		0.17	0.00	0.09	0.01	0.00	0.00	0.00	0.00	0.00
%RSD		61.53	#DIV/0!	141.42	141.42	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.41	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00
n		2	2	2	2	2	2	2	2	2
3/10/92-0.0	0	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared										
Average		0.20	0.01	0.04	0.01	0.00	0.00	0.00	0.00	0.00
St. Dev.		0.18	0.02	0.08	0.01	0.00	0.00	0.00	0.00	0.00
%RSD		89.00	173.21	173.21	173.21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Min		0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.41	0.03	0.13	0.02	0.00	0.00	0.00	0.00	0.00
n		3	3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	8.79	1.11	4.93	3.00	5.91	0.48	1.37	0.85	0.00
3/2/92-2.1-B	2	9.02	1.04	4.90	3.18	5.83	0.46	1.26	0.86	0.00
Average		8.90	1.07	4.92	3.09	5.87	0.47	1.32	0.85	0.00
St. Dev.		0.16	0.05	0.02	0.12	0.06	0.01	0.08	0.01	0.00
%RSD		1.78	4.60	0.37	4.01	1.00	2.46	5.73	1.32	#DIV/0!
Min		8.79	1.04	4.90	3.00	5.83	0.46	1.26	0.85	0.00
Max		9.02	1.11	4.93	3.18	5.91	0.48	1.37	0.86	0.00
n		2	2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	9.36	1.15	4.84	3.17	6.40	0.61	1.14	0.80	0.00
3/2/92-2.2-B	2	5.94	1.27	5.75	4.04	6.61	0.71	1.45	1.22	0.33
Average		7.67	1.21	5.30	3.60	6.50	0.66	1.29	1.01	0.16
St. Dev.		2.39	0.09	0.63	0.62	0.15	0.07	0.22	0.30	0.23
%RSD		31.11	7.53	11.93	17.07	2.25	10.56	17.07	29.89	141.42
Min		5.99	1.15	4.84	3.17	6.40	0.61	1.14	0.80	0.00
Max		9.36	1.27	5.75	4.04	6.61	0.71	1.45	1.22	0.33
n		2	2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	5.35	0.64	2.91	1.75	3.34	0.25	0.70	0.43	0.00
3/4/92-2.1-B	2	5.45	0.68	2.98	1.79	3.24	0.24	0.60	0.45	0.00
Average		5.40	0.66	2.95	1.77	3.29	0.25	0.65	0.44	0.00
St. Dev.		0.07	0.03	0.05	0.03	0.07	0.01	0.07	0.01	0.00
%RSD		1.29	3.83	1.70	1.66	2.17	3.39	10.04	3.23	#DIV/0!
Min		5.35	0.64	2.91	1.75	3.24	0.24	0.60	0.43	0.00
Max		5.45	0.68	2.98	1.79	3.34	0.25	0.70	0.45	0.00
n		2	2	2	2	2	2	2	2	2
Average		7.33	0.98	4.39	2.82	5.22	0.46	1.09	0.77	0.05
St. Dev.		1.92	0.26	1.17	0.89	1.32	0.19	0.35	0.29	0.13
%RSD		26.15	26.61	26.54	31.53	29.17	41.08	32.63	38.32	244.95
Min		5.35	0.64	2.91	1.75	3.24	0.24	0.60	0.43	0.00
Max		9.36	1.27	5.75	4.04	6.61	0.71	1.45	1.22	0.33
n		6	6	6	6	6	6	6	6	6
3/10/92-3.1-A	3	5.84	0.76	3.32	1.93	3.93	0.40	0.82	0.73	0.00
3/10/92-3.1-B	3	6.41	0.80	3.60	2.15	4.10	0.33	0.91	0.50	0.00
Average		6.19	0.78	3.56	2.04	4.01	0.37	0.87	0.62	0.00
St. Dev.		0.43	0.05	0.06	0.16	0.12	0.05	0.07	0.17	0.00
%RSD		6.90	3.32	1.53	7.80	3.07	13.04	7.77	26.79	#DIV/0!
Min		5.88	0.76	3.32	1.93	3.93	0.33	0.82	0.50	0.00
Max		6.49	0.80	3.60	2.15	4.10	0.40	0.91	0.73	0.00
n		2	2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	7.28	0.92	4.25	2.43	4.32	0.29	0.99	0.61	0.00
3/10/92-3.2-B	3	7.48	0.93	3.81	2.50	4.47	0.39	0.85	0.61	0.00
Average		7.38	0.93	4.03	2.47	4.40	0.34	0.92	0.61	0.00
St. Dev.		0.14	0.01	0.31	0.05	0.11	0.07	0.10	0.00	0.00
%RSD		1.86	0.86	7.72	2.01	2.51	20.89	10.32	0.22	#DIV/0!
Min		7.28	0.92	3.81	2.43	4.32	0.29	0.85	0.61	0.00
Max		7.48	0.93	4.25	2.50	4.47	0.39	0.99	0.61	0.00
n		2	2	2	2	2	2	2	2	2
Average		6.78	0.85	3.80	2.25	4.30	0.35	0.89	0.61	0.00
St. Dev.		0.74	0.09	0.33	0.27	0.34	0.05	0.08	0.10	0.00
%RSD		10.87	10.19	8.63	11.81	5.72	14.61	8.40	15.83	#DIV/0!
Min		5.88	0.76	3.32	1.93	3.93	0.29	0.82	0.50	0.00
Max		7.48	0.93	4.25	2.50	4.47	0.40	0.99	0.73	0.00
n		4	4	4	4	4	4	4	4	4
4.1-B (Q1-3)	4	79.10	8.19	40.57	35.44	52.93	3.30	11.06	10.16	2.32
3/18/92-4.2-A	4	43.80	4.68	23.62	18.95	30.88	2.27	6.51	5.39	1.50
3/18/92-4.2-B	4	43.92	4.49	23.07	20.79	3.81	2.34	6.42	6.01	0.74
Average		43.76	4.58	23.35	19.87	17.35	2.30	6.47	5.70	1.12
St. Dev.		0.22	0.14	0.39	1.30	19.14	0.05	0.06	0.43	0.54
%RSD		0.51	2.97	1.66	6.52	110.33	2.07	0.96	7.81	48.40
Min		43.60	4.49	23.07	18.95	3.81	2.27	6.42	5.39	0.74
Max		43.92	4.68	23.62	20.79	30.88	2.34	6.51	6.61	1.50
n		2	2	2	2	2	2	2	2	2
Average		55.54	5.79	29.09	25.13	29.21	2.64	8.00	7.19	1.32
St. Dev.		20.40	2.09	9.95	9.15	24.60	0.58	2.65	2.39	0.79
%RSD		36.74	36.08	34.20	36.42	84.23	21.90	33.13	36.10	52.15
Min		43.80	4.49	23.07	18.95	3.81	2.27	6.42	5.39	0.74
Max		79.10	8.19	40.57	35.44	52.93	3.30	11.06	10.16	2.32
n		3	3	3	3	3	3	3	3	3

BRH PES2	Dynac/cm*2	CB186, ng	CB178, ng	CB196, ng	CB206, ng	CB260, ng	CB 266, ng	Σ PCB, ng	HCB, ng	HEPT, ng
2/27/92-0.0-A	0	0.04	0.00	0.00	0.00	0.00	2.01	#REPT	1.01	0.00
2/27/92-0.0-B	0	0.00	0.00	0.00	0.00	0.00	1.07	#REPT	0.58	0.00
Average		0.02	0.00	0.00	0.00	0.00	1.54	#REPT	0.79	0.00
St. Dev.		0.03	0.00	0.00	0.00	0.00	0.67	#REPT	0.30	0.00
% RSD		141.42	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	43.14	#REPT	38.02	#DIV/0!
Min		0.00	0.00	0.00	0.00	0.00	1.07	#REPT	0.58	0.00
Max		0.04	0.00	0.00	0.00	0.00	2.01	#REPT	1.01	0.00
n		2	2	2	2	2	0		2	2
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.32	#REPT	0.79	0.00
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared										
Average		0.01	0.00	0.00	0.00	0.00	1.14	#REPT	0.79	0.00
St. Dev.		0.03	0.00	0.00	0.00	0.00	0.85	#REPT	0.21	0.00
% RSD		173.31	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	74.68	#REPT	24.96	#DIV/0!
Min		0.00	0.00	0.00	0.00	0.00	0.32	#REPT	0.58	0.00
Max		0.04	0.00	0.00	0.00	0.00	2.01	#REPT	1.01	0.00
n		3	3	3	3	3	0		3	3
3/2/92-2.1-A	2	1.83	1.25	0.33	0.26	0.34	60.10	#REPT	3.10	0.00
3/2/92-2.1-B	2	1.94	0.63	0.20	0.13	0.33	58.04	#REPT	0.43	0.00
Average		1.90	0.95	0.26	0.19	0.34	59.07	#REPT	1.77	0.00
St. Dev.		0.09	0.45	0.09	0.09	0.00	1.46	#REPT	1.89	0.00
% RSD		4.69	47.53	35.37	48.19	3.32	2.47	#REPT	106.76	#DIV/0!
Min		1.83	0.63	0.20	0.13	0.33	58.04	#REPT	0.43	0.00
Max		1.94	1.26	0.33	0.26	0.34	60.10	#REPT	3.10	0.00
n		2	2	2	2	2	0		2	2
3/2/92-2.2-A	2	1.89	1.03	0.77	0.01	0.64	60.09	#REPT	1.27	0.00
3/2/92-2.2-B	2	2.14	1.17	0.36	0.20	0.33	73.29	#REPT	1.41	0.00
Average		2.02	1.10	0.56	0.11	0.48	66.69	#REPT	1.34	0.00
St. Dev.		0.18	0.10	0.29	0.14	0.22	9.33	#REPT	0.10	0.00
% RSD		8.96	9.15	52.09	129.23	45.31	14.00	#REPT	7.42	#DIV/0!
Min		1.89	1.03	0.36	0.01	0.33	60.09	#REPT	1.27	0.00
Max		2.14	1.17	0.77	0.20	0.64	73.29	#REPT	1.41	0.00
n		2	2	2	2	2	0		2	2
3/4/92-2.1-A	2	1.11	0.33	0.26	0.00	0.11	34.34	#REPT	1.13	0.00
3/4/92-2.1-B	2	1.14	0.20	0.28	0.01	0.11	34.92	#REPT	1.37	0.00
Average		1.12	0.26	0.27	0.01	0.11	34.73	#REPT	1.25	0.00
St. Dev.		0.02	0.09	0.01	0.01	0.00	0.27	#REPT	0.17	0.00
% RSD		1.64	36.07	4.62	141.42	3.36	0.78	#REPT	13.97	#DIV/0!
Min		1.11	0.20	0.26	0.00	0.11	34.34	#REPT	1.13	0.00
Max		1.14	0.33	0.28	0.01	0.11	34.92	#REPT	1.37	0.00
n		2	2	2	2	2	0		2	2
Average		1.68	0.77	0.37	0.10	0.31	53.50	#REPT	1.45	0.00
St. Dev.		0.44	0.45	0.21	0.11	0.20	15.32	#REPT	0.88	0.00
% RSD		26.39	58.57	56.58	109.59	63.25	29.01	#REPT	60.87	#DIV/0!
Min		1.11	0.20	0.20	0.00	0.11	34.34	#REPT	0.43	0.00
Max		2.14	1.26	0.77	0.26	0.64	73.29	#REPT	3.10	0.00
n		6	6	6	6	6	0		6	6
3/10/92-3.1-A	3	1.37	0.45	0.25	0.15	0.22	34.34	#REPT	0.54	0.00
3/10/92-3.1-B	3	1.41	0.79	0.35	0.32	0.35	41.70	#REPT	1.80	0.00
Average		1.39	0.62	0.30	0.34	0.28	39.02	#REPT	1.17	0.00
St. Dev.		0.05	0.24	0.07	0.26	0.09	3.79	#REPT	0.89	0.00
% RSD		2.24	38.38	23.06	77.68	33.50	9.72	#REPT	76.29	#DIV/0!
Min		1.37	0.45	0.25	0.15	0.22	34.34	#REPT	0.54	0.00
Max		1.41	0.79	0.35	0.32	0.35	41.70	#REPT	1.80	0.00
n		2	2	2	2	2	0		2	2
3/10/92-3.2-A	3	1.58	0.47	0.26	0.06	0.21	44.09	#REPT	1.01	0.00
3/10/92-3.2-B	3	1.53	0.82	0.40	0.07	0.53	43.11	#REPT	1.05	0.00
Average		1.56	0.65	0.33	0.07	0.37	44.60	#REPT	1.03	0.00
St. Dev.		0.04	0.24	0.09	0.01	0.23	0.72	#REPT	0.05	0.00
% RSD		2.57	37.73	28.76	13.94	60.64	1.62	#REPT	3.00	#DIV/0!
Min		1.53	0.47	0.26	0.06	0.21	44.09	#REPT	1.01	0.00
Max		1.58	0.82	0.40	0.07	0.53	43.11	#REPT	1.05	0.00
n		2	2	2	2	2	0		2	2
Average		1.47	0.64	0.32	0.20	0.33	41.81	#REPT	1.17	0.00
St. Dev.		0.10	0.20	0.07	0.22	0.15	3.92	#REPT	0.52	0.00
% RSD		6.74	31.13	22.06	107.15	43.67	9.36	#REPT	47.34	#DIV/0!
Min		1.37	0.45	0.25	0.06	0.21	34.34	#REPT	0.54	0.00
Max		1.58	0.82	0.40	0.32	0.53	43.11	#REPT	1.05	0.00
n		4	4	4	4	4	0		4	4
4.1-B (C1-3)	4	16.82	9.28	3.38	3.67	2.31	581.64	#REPT	3.91	0.51
3/18/92-4.2-A	4	10.36	5.43	1.83	3.32	1.46	313.61	#REPT	2.10	0.18
3/18/92-4.2-B	4	10.60	5.85	1.64	2.29	1.32	284.47	#REPT	1.71	0.19
Average		10.38	5.64	1.73	2.91	1.49	299.04	#REPT	1.90	0.19
St. Dev.		0.03	0.30	0.13	0.87	0.04	20.61	#REPT	0.28	0.01
% RSD		0.26	5.27	7.61	29.82	2.59	6.89	#REPT	14.49	3.82
Min		10.36	5.43	1.64	2.29	1.46	284.47	#REPT	1.71	0.18
Max		10.60	5.85	1.83	3.32	1.52	313.61	#REPT	2.10	0.19
n		2	2	2	2	2	0		2	2
Average		12.44	6.86	2.28	3.16	1.83	393.24	#REPT	2.57	0.29
St. Dev.		3.40	2.11	0.96	0.76	0.59	163.81	#REPT	1.16	0.19
% RSD		28.93	30.77	41.87	23.88	32.34	41.66	#REPT	45.71	63.38
Min		10.36	5.43	1.64	2.29	1.46	284.47	#REPT	1.71	0.18
Max		16.62	9.28	3.38	3.67	2.51	581.64	#REPT	3.91	0.51
n		3	3	3	3	3	0		3	3

BRH PES2	Dynes/cm ²	ALDRIN, ng	OP'DDE, ng	DEELDREN, ng	PP'DDE, ng	OP'DDD, ng	PP'DDD, ng	OP'DDT, ng	MIREX, ng
2/27/92-00-A	0	0.00	0.00	0.00	0.00	0.04	1.29	0.00	0.01
2/27/92-00-B	0	0.00	0.00	0.02	0.19	0.10	0.45	0.00	0.00
Average		0.00	0.00	0.01	0.10	0.07	0.87	0.00	0.01
St. Dev.		0.00	0.00	0.01	0.14	0.04	0.60	0.00	0.01
% RSD		#DIV/0!	#DIV/0!	105.53	141.42	58.66	68.65	#DIV/0!	141.42
Min		0.00	0.00	0.00	0.00	0.04	0.45	0.00	0.00
Max		0.00	0.00	0.02	0.19	0.10	1.29	0.00	0.01
n		2	2	2	2	2	2	2	2
3/10/92-00	0	0.09	0.00	0.07	0.00	0.05	0.11	0.00	0.00
3/18/92-00	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared									
Average		0.03	0.00	0.03	0.06	0.06	0.61	0.00	0.00
St. Dev.		0.05	0.00	0.03	0.11	0.03	0.61	0.00	0.01
% RSD		173.21	#DIV/0!	117.08	173.21	52.03	99.31	#DIV/0!	173.21
Min		0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00
Max		0.09	0.00	0.07	0.19	0.10	1.29	0.00	0.01
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	2	0.61	0.81	0.74	1.28	2.16	1.00	0.41	0.22
3/2/92-2.1-B	2	0.00	1.34	0.75	1.43	2.18	0.37	0.45	0.10
Average		0.31	1.07	0.75	1.35	2.17	0.69	0.43	0.16
St. Dev.		0.43	0.37	0.00	0.10	0.01	0.44	0.03	0.09
% RSD		141.42	34.64	0.58	7.54	0.53	64.61	7.93	53.56
Min		0.00	0.81	0.74	1.28	2.16	0.37	0.41	0.10
Max		0.61	1.34	0.75	1.43	2.18	1.00	0.45	0.22
n		2	2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.00	1.33	0.84	2.87	2.24	0.96	0.49	0.72
3/2/92-2.2-B	2	0.00	2.06	1.01	3.97	2.97	0.99	0.00	0.29
Average		0.00	1.70	0.93	3.42	2.60	0.98	0.25	0.50
St. Dev.		0.00	0.51	0.12	0.78	0.51	0.02	0.35	0.31
% RSD		#DIV/0!	30.34	12.92	22.74	19.77	2.33	141.42	61.32
Min		0.00	1.33	0.84	2.87	2.24	0.96	0.00	0.29
Max		0.00	2.06	1.01	3.97	2.97	0.99	0.49	0.72
n		2	2	2	2	2	2	2	2
3/4/92-2.1-A	2	0.00	0.58	0.41	0.00	1.19	0.44	0.19	0.22
3/4/92-2.1-B	2	0.00	0.68	0.43	0.00	1.28	0.45	0.38	0.16
Average		0.00	0.63	0.42	0.00	1.23	0.45	0.29	0.19
St. Dev.		0.00	0.07	0.01	0.00	0.06	0.01	0.14	0.04
% RSD		#DIV/0!	10.97	2.93	#DIV/0!	4.84	1.32	48.56	22.87
Min		0.00	0.58	0.41	0.00	1.19	0.44	0.19	0.16
Max		0.00	0.68	0.43	0.00	1.28	0.45	0.38	0.22
n		2	2	2	2	2	2	2	2
Average		0.10	1.13	0.70	1.59	2.00	0.70	0.32	0.29
St. Dev.		0.23	0.56	0.24	1.58	0.67	0.31	0.19	0.22
% RSD		244.95	49.22	33.67	99.28	33.34	43.86	59.02	77.89
Min		0.00	0.58	0.41	0.00	1.19	0.37	0.00	0.10
Max		0.61	2.06	1.01	3.97	2.97	1.00	0.49	0.72
n		6	6	6	6	6	6	6	6
3/10/92-3.1-A	3	0.00	0.43	0.20	1.50	1.22	0.24	0.00	0.15
3/10/92-3.1-B	3	0.00	0.54	0.50	1.70	1.41	0.54	0.30	0.26
Average		0.00	0.49	0.35	1.60	1.32	0.39	0.15	0.20
St. Dev.		0.00	0.08	0.21	0.14	0.13	0.21	0.21	0.08
% RSD		#DIV/0!	16.57	60.66	8.51	9.72	54.75	141.42	37.25
Min		0.00	0.43	0.20	1.50	1.22	0.24	0.00	0.15
Max		0.00	0.54	0.50	1.70	1.41	0.54	0.30	0.26
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	0.00	0.32	0.33	1.76	1.47	0.44	0.00	0.14
3/10/92-3.2-B	3	0.00	0.61	0.62	1.96	1.70	1.07	0.61	0.68
Average		0.00	0.56	0.58	1.86	1.56	0.76	0.31	0.41
St. Dev.		0.00	0.06	0.06	0.14	0.16	0.43	0.43	0.38
% RSD		#DIV/0!	11.33	11.23	7.55	10.15	56.88	141.42	92.02
Min		0.00	0.32	0.33	1.76	1.47	0.44	0.00	0.14
Max		0.00	0.61	0.62	1.96	1.70	1.07	0.61	0.68
n		2	2	2	2	2	2	2	2
Average		0.00	0.32	0.44	1.73	1.45	0.57	0.23	0.31
St. Dev.		0.00	0.07	0.18	0.19	0.19	0.35	0.29	0.25
% RSD		#DIV/0!	14.06	39.68	10.54	13.45	61.49	128.02	82.39
Min		0.00	0.43	0.30	1.50	1.22	0.24	0.00	0.14
Max		0.00	0.61	0.62	1.96	1.70	1.07	0.61	0.68
n		4	4	4	4	4	4	4	4
4.1-B (I1-3)	4	0.00	19.67	8.18	31.33	21.36	10.72	3.95	1.10
3/18/92-4.2-A	4	0.00	8.29	3.01	16.48	11.43	1.89	1.98	0.41
3/18/92-4.2-B	4	0.00	9.74	3.13	17.58	12.32	1.91	2.10	0.42
Average		0.00	9.02	3.07	17.23	11.88	1.90	2.04	0.42
St. Dev.		0.00	1.03	0.09	1.06	0.63	0.02	0.08	0.01
% RSD		#DIV/0!	11.34	2.85	6.17	5.32	0.95	4.07	3.18
Min		0.00	8.29	3.01	16.48	11.43	1.89	1.98	0.41
Max		0.00	9.74	3.13	17.94	12.32	1.91	2.10	0.42
n		2	2	2	2	2	2	2	2
Average		0.00	12.57	4.78	21.93	15.04	4.84	2.67	0.64
St. Dev.		0.00	6.19	2.95	8.18	5.50	1.11	1.11	0.39
% RSD		#DIV/0!	49.27	61.78	37.29	36.55	105.21	41.33	61.35
Min		0.00	8.29	3.01	16.48	11.43	1.89	1.98	0.41
Max		0.00	19.67	8.18	31.33	21.36	10.72	3.95	1.10
n		3	3	3	3	3	3	3	3

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

BRH PES2	Dyes-June+2	CB104, ng/l	CB144, ng/l	CB166, ng/l	CB101, ng/l	CB167, ng/l	CB177, ng/l	CB184, ng/l	CB118, ng/l
2/27/95-4.3-A	0	0.00	0.00	1.15	1.31	0.00	0.00	4.70	8.10
2/27/95-4.3-B	0	0.00	0.00	0.50	2.80	0.00	0.00	3.18	3.19
Average		0.00	0.00	0.82	2.04	0.00	0.00	3.94	5.64
St. Dev.		0.00	0.00	0.46	1.04	0.00	0.00	1.07	3.47
Q1000		NDV/AH	NDV/AH	55.61	51.36	NDV/AH	NDV/AH	27.28	61.58
Min		0.00	0.00	0.50	1.31	0.00	0.00	3.18	3.19
Max		0.00	0.00	1.15	2.80	0.00	0.00	4.70	8.10
n		2	2	2	2	2	2	2	2
3/14/95-4.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.40
3/14/95-4.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/14/95 not compared									
Average		0.00	0.00	0.58	1.37	0.00	0.33	2.87	3.06
St. Dev.		0.00	0.00	0.58	1.40	0.00	0.37	2.00	3.06
Q1000		NDV/AH	NDV/AH	104.70	104.31	NDV/AH	173.21	69.65	94.25
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.40
Max		0.00	0.00	1.15	2.80	0.00	0.99	4.70	8.10
n		3	3	3	3	3	3	3	3
2/2/95-3.1-A	2	0.00	19.09	23.61	121.80	43.00	10.01	60.41	175.20
2/2/95-3.1-B	2	1.25	18.00	32.54	122.54	44.32	10.31	70.15	180.36
Average		1.77	18.96	32.77	122.67	43.96	10.16	69.87	178.10
St. Dev.		2.51	0.21	0.30	0.19	0.31	0.21	0.37	3.17
Q1000		141.48	1.90	0.00	0.15	1.17	2.11	0.50	1.70
Min		0.00	18.00	32.54	122.54	43.00	10.01	60.41	175.20
Max		1.25	19.09	33.61	123.80	44.32	10.31	70.15	180.36
n		2	2	2	2	2	2	2	2
2/2/95-3.3-A	2	0.32	3.90	45.01	126.79	45.34	7.40	72.15	187.33
2/2/95-3.3-B	2	0.00	36.05	60.00	182.39	41.20	16.74	93.39	119.71
Average		7.94	21.27	36.52	144.59	23.26	12.61	83.87	133.67
St. Dev.		2.30	21.74	14.20	23.17	11.54	6.41	14.50	47.75
Q1000		79.30	102.22	20.80	17.41	21.20	54.74	14.77	31.11
Min		0.32	3.90	43.01	126.79	45.34	7.40	72.15	119.71
Max		9.00	36.02	60.00	182.39	41.20	16.74	93.39	187.33
n		2	2	2	2	2	2	2	2
3/4/95-3.1-A	2	0.00	3.46	33.60	74.33	23.04	3.40	36.30	107.00
3/4/95-3.1-B	2	0.91	0.02	32.23	80.10	24.06	10.90	41.11	100.06
Average		4.96	0.14	32.41	78.31	24.36	4.99	39.75	104.07
St. Dev.		7.04	0.94	0.26	3.20	0.74	5.07	1.04	1.40
Q1000		147.48	15.00	0.00	3.20	3.08	72.57	4.84	1.20
Min		0.00	3.46	32.23	74.33	23.04	3.40	36.30	107.00
Max		9.91	4.02	33.60	80.10	24.06	10.90	41.11	100.06
n		2	2	2	2	2	2	2	2
Average		4.90	15.45	47.34	115.19	40.53	9.74	64.93	146.25
St. Dev.		4.45	12.16	13.70	32.25	14.14	4.30	21.90	36.30
Q1000		90.91	78.71	20.00	20.00	34.90	44.96	73.34	26.15
Min		0.00	3.46	32.23	74.33	23.04	3.40	36.30	107.00
Max		9.91	36.06	60.00	180.30	61.26	16.74	93.39	187.33
n		4	4	4	4	4	4	4	4
3/10/95-3.1-A	3	5.08	3.30	31.32	79.75	26.66	4.39	39.45	117.07
3/10/95-3.1-B	3	12.95	5.93	34.11	94.05	28.96	4.88	43.28	129.75
Average		9.44	4.62	32.71	86.90	27.82	4.63	42.36	123.71
St. Dev.		4.93	1.87	3.20	10.11	1.44	0.35	4.12	8.54
Q1000		32.11	40.43	10.00	11.00	5.00	7.61	9.72	6.90
Min		5.08	3.30	31.32	79.75	26.66	4.39	39.45	117.07
Max		12.95	5.93	34.11	94.05	28.96	4.88	43.28	129.75
n		2	2	2	2	2	2	2	2
3/10/95-3.3-A	3	0.00	0.15	39.18	102.96	31.11	4.79	47.34	145.07
3/10/95-3.3-B	3	12.18	0.17	35.34	101.70	31.70	2.72	54.65	149.55
Average		6.00	4.16	37.26	102.33	31.41	3.76	50.99	147.61
St. Dev.		8.61	3.64	2.70	0.89	0.42	1.47	5.18	2.74
Q1000		141.42	135.60	7.30	0.47	1.33	39.11	10.15	1.06
Min		0.00	0.17	35.34	101.70	31.11	2.72	47.34	145.07
Max		12.18	0.15	39.18	102.96	31.70	4.79	54.65	149.55
n		2	2	2	2	2	2	2	2
Average		7.78	7.9	33.69	94.61	29.61	4.90	46.68	135.66
St. Dev.		6.05	3.24	10.44	2.29	1.01	6.28	14.74	14.74
Q1000		77.82	9.12	11.27	7.73	24.05	13.45	10.87	10.87
Min		0.00	31.32	79.75	26.66	2.72	59.45	117.07	117.07
Max		12.95	39.18	102.96	102.96	31.70	4.79	54.65	149.55
n		4	4	4	4	4	4	4	4
4.1-B (2.1-B)	4	31.98	332.08	523.36	1044.07	447.83	138.61	688.06	1581.96
3/18/95-4.3-A	4	27.19	522.17	553.94	1120.08	527.04	137.21	736.14	1743.99
3/18/95-4.3-B	4	21.68	331.43	534.62	1062.82	548.70	151.49	793.66	1756.61
Average		24.44	336.80	544.28	1091.45	537.87	144.35	764.91	1790.30
St. Dev.		1.80	20.40	13.66	40.45	15.31	10.10	60.69	8.92
Q1000		15.30	6.14	2.51	3.71	2.83	7.00	5.32	0.51
Min		21.68	322.17	534.62	1062.82	527.04	137.21	736.14	1743.99
Max		27.19	331.43	553.94	1120.08	548.70	151.49	793.66	1756.61
n		2	2	2	2	2	2	2	2
Average		26.95	341.90	537.31	1075.64	521.19	142.30	739.29	1694.18
St. Dev.		5.15	17.00	13.46	39.57	30.85	7.33	52.92	97.59
Q1000		19.11	5.00	2.88	3.66	5.92	5.49	7.15	5.75
Min		21.68	322.17	523.36	1044.07	447.83	137.21	688.06	1581.96
Max		31.98	332.09	553.94	1120.08	548.70	151.49	793.66	1756.61
n		3	3	3	3	3	3	3	3

BRH PES2	Dynac/cm ²	CB100, ng/l	CB103, ng/l	CB106, ng/l	CB120, ng/l	CB124, ng/l	CB127, ng/l	CB128, ng/l	CB200, ng/l
2/27/92-0.0-A	0	0.00	2.40	0.30	0.00	0.00	0.00	0.00	0.00
2/27/92-0.0-B	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average		0.00	1.30	0.15	0.00	0.00	0.00	0.00	0.00
St. Dev.		0.00	1.84	0.21	0.00	0.00	0.00	0.00	0.00
%RSD		ND	141.42	141.42	ND	ND	ND	ND	ND
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	2.40	0.30	0.00	0.00	0.00	0.00	0.00
n		2	2	2	2	2	2	2	2
3/10/92-0.0	0	0.20	0.00	0.00	0.00	0.00	0.00	0.30	0.00
3/10/92-0.0	0	LOBT	LOBT	LOBT	LOBT	LOBT	LOBT	LOBT	LOBT
3/10/92 not compared									
Average		0.09	0.07	0.10	0.00	0.00	0.00	0.00	0.00
St. Dev.		0.16	1.30	0.17	0.00	0.00	0.00	0.00	0.00
%RSD		173.21	173.21	173.21	ND	ND	ND	ND	ND
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.20	2.40	0.30	0.00	0.00	0.00	0.30	0.00
n		3	3	3	3	3	3	3	3
3/2/92-2.1-A	1	22.17	90.00	60.00	118.16	9.02	27.40	16.91	0.00
3/2/92-2.1-B	2	20.77	90.00	63.53	116.90	9.30	25.27	17.25	0.00
Average		21.47	90.33	61.76	117.30	9.46	26.33	17.10	0.00
St. Dev.		0.99	0.36	2.48	1.17	0.23	1.31	0.26	0.00
%RSD		4.60	0.37	4.04	1.00	2.44	5.73	1.52	ND
Min		20.77	90.00	60.00	116.90	9.30	25.27	16.91	0.00
Max		22.17	90.66	63.53	118.16	9.68	27.40	17.25	0.00
n		2	2	2	2	2	2	2	2
3/2/92-2.1-A	2	22.93	97.14	63.99	120.00	12.23	22.72	15.91	0.00
3/2/92-2.1-B		25.49	115.04	80.80	132.15	14.21	24.96	24.43	6.56
Average		24.21	106.09	72.00	130.57	13.22	23.84	20.17	3.28
St. Dev.		1.82	12.66	12.31	2.93	1.40	4.41	6.00	4.64
%RSD		7.53	11.93	17.07	2.23	10.56	17.07	29.80	141.42
Min		22.92	97.14	63.99	120.00	12.23	22.72	15.91	0.00
Max		25.49	115.04	80.80	132.15	14.21	24.96	24.43	6.56
n		2	2	2	2	2	2	2	2
3/4/92-3.1-A	1	12.83	50.27	35.00	64.80	5.02	13.94	8.65	0.00
3/4/92-3.1-B	2	13.54	50.60	35.00	64.80	4.79	13.10	9.05	0.00
Average		13.18	50.40	35.00	64.80	4.91	13.02	8.85	0.00
St. Dev.		0.31	1.00	0.39	1.43	0.17	1.31	0.29	0.00
%RSD		3.03	1.70	1.04	2.17	3.39	10.04	3.23	ND
Min		12.83	50.27	35.00	64.80	4.79	12.10	8.65	0.00
Max		13.54	50.60	35.00	64.80	5.02	13.94	9.05	0.00
n		2	2	2	2	2	2	2	2
Average		19.62	87.80	56.45	104.42	9.19	21.73	15.37	1.00
St. Dev.		5.22	23.30	17.80	30.46	3.76	7.09	5.00	2.68
%RSD		26.61	26.34	31.53	29.17	41.06	32.68	32.32	264.95
Min		12.83	50.27	35.00	64.80	4.79	12.10	8.65	0.00
Max		25.49	115.04	80.80	132.15	14.21	24.96	24.43	6.56
n		6	6	6	6	6	6	6	6
3/10/92-3.1-A	3	15.19	70.46	38.50	78.32	6.65	16.38	14.70	0.00
3/10/92-3.1-B	3	15.92	72.00	42.99	82.00	6.65	18.28	10.00	0.00
Average		15.56	71.23	40.75	80.26	7.52	17.33	12.36	0.00
St. Dev.		0.32	1.10	3.18	2.46	0.95	1.35	0.31	0.00
%RSD		3.32	1.55	7.80	3.07	13.04	7.77	2.49	ND
Min		15.19	70.46	38.50	78.32	6.65	16.38	10.00	0.00
Max		15.92	72.00	42.99	82.00	8.00	18.28	14.70	0.00
n		2	2	2	2	2	2	2	2
3/10/92-3.2-A	3	18.40	85.09	46.64	86.35	5.73	19.80	12.14	0.00
3/10/92-3.2-B	3	18.63	76.28	50.06	89.47	7.71	17.05	12.18	0.00
Average		18.51	80.64	49.34	87.91	6.72	18.42	12.16	0.00
St. Dev.		0.16	6.23	0.99	2.21	1.40	1.94	0.00	0.00
%RSD		0.86	7.72	2.01	2.51	20.89	10.52	0.00	ND
Min		18.40	76.28	48.64	86.35	5.73	17.05	12.14	0.00
Max		18.63	85.09	50.06	89.47	7.71	19.80	12.18	0.00
n		2	2	2	2	2	2	2	2
Average		17.08	75.96	45.05	84.00	7.02	17.85	12.26	0.00
St. Dev.		1.74	6.56	5.32	4.81	1.04	1.50	1.50	0.00
%RSD		10.19	8.63	11.31	5.72	14.81	8.40	15.63	ND
Min		15.19	70.46	38.50	78.32	5.73	16.38	10.00	0.00
Max		18.63	85.09	50.06	89.47	8.00	19.80	14.70	0.00
n		4	4	4	4	4	4	4	4
4.1-B (Σ1-5)	4	163.87	811.34	712.87	1058.56	66.05	221.13	203.24	16.47
3/18/92-4.2-A	4	187.14	944.96	758.16	1235.14	90.81	260.49	215.70	60.14
3/18/92-4.2-B	4	179.44	922.77	831.49	132.54	93.51	256.96	240.25	29.47
Average		183.29	930.37	794.83	693.54	92.16	258.72	227.98	44.81
St. Dev.		5.44	15.69	51.86	765.32	1.91	2.48	17.33	21.69
%RSD		2.97	1.68	6.52	110.33	2.07	0.96	7.61	48.40
Min		179.44	922.77	758.16	132.54	90.81	256.96	215.70	29.47
Max		187.14	944.96	831.49	1235.14	93.51	260.49	240.25	60.14
n		2	2	2	2	2	2	2	2
Average		174.81	893.03	767.51	813.41	83.45	240.20	219.73	45.36
St. Dev.		11.85	71.39	59.86	580.82	15.13	21.78	18.83	15.36
%RSD		6.70	8.02	7.80	71.23	18.13	9.05	8.57	33.87
Min		163.87	811.34	712.87	132.54	66.05	221.13	203.24	29.47
Max		187.14	944.96	831.49	1235.14	93.51	260.49	240.25	60.14
n		3	3	3	3	3	3	3	3

NRH PES2	Dynamics*2	CB184, ng/l	CB174, ng/l	CB196, ng/l	CB206, ng/l	CB208, ng/l	CB sum, ng/l	Σ PCB, ng/l	HCB, ng/l
2/21/92-0.0-A	0	0.80	0.00	0.00	0.00	0.00	40.30	42.87	20.17
2/21/92-0.0-B	0	0.00	0.00	0.00	0.00	0.00	21.45	48.87	11.62
Average		0.40	0.00	0.00	0.00	0.00	30.88	48.87	15.89
St. Dev.		0.56	0.00	0.00	0.00	0.00	13.33	48.87	6.04
% RSD		141.42	NDIV/01	NDIV/01	NDIV/01	NDIV/01	43.14	48.87	34.02
Min		0.00	0.00	0.00	0.00	0.00	21.45	48.87	11.62
Max		0.80	0.00	0.00	0.00	0.00	40.30	48.87	20.17
n		2	2	2	2	2	2	0	2
3/10/92-0.0	0	0.00	0.00	0.00	0.00	0.00	3.31	48.87	7.86
3/18/92-0.0	0	LOFT	LOFT	LOFT	LOFT	LOFT	LOFT	LOFT	LOFT
3/10-18 not compared									
Average		0.27	0.00	0.00	0.00	0.00	21.66	48.87	13.22
St. Dev.		0.46	0.00	0.00	0.00	0.00	18.54	48.87	6.30
% RSD		173.21	NDIV/01	NDIV/01	NDIV/01	NDIV/01	85.63	48.87	47.70
Min		0.00	0.00	0.00	0.00	0.00	3.31	48.87	7.86
Max		0.80	0.00	0.00	0.00	0.00	40.30	48.87	20.17
n		3	3	3	3	3	3	0	3
3/2/92-2.1-A	2	36.65	25.16	6.60	5.10	6.73	1202.04	48.87	62.06
3/2/92-2.1-B	2	39.14	12.55	3.96	2.51	6.68	1160.79	48.87	8.86
Average		37.90	18.91	5.28	3.81	6.70	1181.42	48.87	35.36
St. Dev.		1.78	8.99	1.87	1.83	0.03	29.17	48.87	57.76
% RSD		4.69	47.53	35.37	48.19	0.32	2.47	48.87	106.78
Min		36.65	12.55	3.96	2.51	6.68	1160.79	48.87	8.86
Max		39.14	25.16	6.60	5.10	6.73	1202.04	48.87	62.06
n		2	2	2	2	2	2	0	2
3/2/92-2.2-A	2	37.74	20.56	15.45	0.18	12.77	1201.84	48.87	23.42
3/2/92-2.2-B	2	42.88	23.40	7.15	4.06	6.57	1445.85	48.87	28.23
Average		40.32	21.98	11.29	2.12	9.67	1333.85	48.87	26.82
St. Dev.		3.62	2.61	5.26	2.74	4.38	186.64	48.87	1.99
% RSD		8.99	9.15	32.09	129.23	45.31	14.66	48.87	7.43
Min		37.74	20.56	7.15	0.18	6.57	1201.84	48.87	23.42
Max		42.88	23.40	15.45	4.06	12.77	1445.85	48.87	28.23
n		2	2	2	2	2	2	0	2
3/4/92-3.1-A	2	22.20	6.59	5.19	0.00	2.22	899.78	48.87	22.52
3/4/92-3.1-B	2	22.72	3.91	5.54	0.26	2.11	898.46	48.87	27.46
Average		22.46	5.25	5.37	0.13	2.16	894.62	48.87	24.99
St. Dev.		0.57	1.80	0.25	0.18	0.07	5.43	48.87	3.49
% RSD		1.64	34.67	4.63	141.42	3.36	0.78	48.87	13.97
Min		22.20	3.91	5.19	0.00	2.11	898.46	48.87	22.52
Max		22.72	6.59	5.54	0.26	2.22	899.46	48.87	27.46
n		2	2	2	2	2	2	0	2
Average		33.36	15.36	7.31	2.08	6.18	1048.96	48.87	28.06
St. Dev.		8.86	9.81	4.14	2.21	3.91	310.56	48.87	17.89
% RSD		26.39	58.57	56.38	109.39	63.25	29.01	48.87	68.87
Min		22.20	3.91	3.96	0.00	2.11	898.46	48.87	8.86
Max		42.88	23.40	15.45	5.10	12.77	1445.85	48.87	62.06
n		6	6	6	6	6	6	0	6
3/10/92-3.1-A	3	27.38	9.20	5.88	3.85	4.34	726.72	48.87	18.75
3/10/92-3.1-B	3	28.26	15.87	7.86	10.30	7.89	833.96	48.87	33.95
Average		27.82	12.48	6.86	6.77	5.67	780.34	48.87	25.35
St. Dev.		0.62	4.79	1.40	5.26	1.88	75.83	48.87	17.82
% RSD		2.34	38.38	23.88	77.68	33.20	9.72	48.87	76.20
Min		27.38	9.20	5.88	3.85	4.34	726.72	48.87	18.75
Max		28.26	15.87	7.86	10.30	7.89	833.96	48.87	33.95
n		2	2	2	2	2	2	0	2
3/10/92-3.2-A	3	31.48	9.47	5.26	1.23	4.26	881.85	48.87	28.19
3/10/92-3.2-B	3	38.60	16.37	7.95	1.29	10.46	902.29	48.87	21.07
Average		31.12	12.92	6.61	1.36	7.46	892.07	48.87	24.60
St. Dev.		9.74	4.87	1.90	0.19	4.33	14.43	48.87	0.82
% RSD		2.37	37.73	28.76	13.94	60.64	1.62	48.87	3.80
Min		30.60	9.47	5.26	1.23	4.26	881.85	48.87	28.19
Max		31.48	16.37	7.95	1.36	10.46	902.29	48.87	21.07
n		2	2	2	2	2	2	0	2
Average		28.67	12.70	6.34	4.07	6.57	836.20	48.87	21.99
St. Dev.		1.99	3.85	1.48	4.36	3.01	78.41	48.87	10.41
% RSD		6.74	31.13	22.08	107.15	45.87	9.36	48.87	47.34
Min		27.38	9.20	5.08	1.29	4.26	726.72	48.87	18.75
Max		31.48	16.37	7.95	1.36	10.46	902.29	48.87	33.95
n		4	4	4	4	4	4	0	4
4.1-B (C1-3)	4	332.43	185.57	67.57	73.41	30.25	11632.75	48.87	78.25
3/18/92-4.2-A	4	414.59	217.32	73.88	140.82	58.45	12544.44	48.87	73.94
3/18/92-4.2-B	4	415.92	234.16	65.57	91.77	60.88	11378.73	48.87	68.34
Average		415.16	225.74	69.78	116.30	59.54	11961.80	48.87	76.14
St. Dev.		1.09	11.90	5.27	34.68	1.54	824.26	48.87	11.03
% RSD		0.26	5.27	7.61	29.82	2.39	6.89	48.87	14.49
Min		414.59	217.32	65.57	91.77	58.45	11378.73	48.87	68.34
Max		415.92	234.16	73.07	140.82	60.88	12544.44	48.87	82.94
n		2	2	2	2	2	2	0	2
Average		387.58	212.35	68.72	102.00	56.44	11851.93	48.87	76.84
St. Dev.		47.77	24.87	3.86	34.83	5.47	413.98	48.87	7.88
% RSD		12.32	11.62	5.61	34.16	9.70	3.47	48.87	10.27
Min		332.43	185.57	65.57	73.41	30.25	11378.73	48.87	68.34
Max		415.92	234.16	73.08	140.82	60.88	12544.44	48.87	82.94
n		3	3	3	3	3	3	0	3

BRH PES2	Dynes/cm ²	HEPT, ug/l	ALDRIN, ug/l	OP'DDR, ug/l	DELDREN, ug/l	PP'DDR, ug/l	OP'DDD, ug/l	PP'DDD, ug/l
2/27/92-0.0-A	0	0.00	0.00	0.00	0.05	0.00	0.32	25.78
2/27/92-0.0-B	0	0.00	0.00	0.00	0.35	3.87	1.97	8.93
Average		0.00	0.00	0.00	0.20	1.94	1.60	17.36
St. Dev.		0.00	0.00	0.00	0.21	2.74	0.82	11.92
% RSD		#DIV/0!	#DIV/0!	#DIV/0!	105.53	141.42	58.56	68.65
Min		0.00	0.00	0.00	0.05	0.00	0.82	8.93
Max		0.00	0.00	0.00	0.35	3.87	1.97	25.78
n		2	2	2	2	2	2	2
3/10/92-0.0	0	0.00	0.91	0.00	0.68	0.00	0.46	1.05
3/18/92-0.0	0	LOST	LOST	LOST	LOST	LOST	LOST	LOST
3/10&18 not compared								
Average		0.00	0.30	0.00	0.36	1.29	1.08	11.92
St. Dev.		0.00	0.52	0.00	0.31	2.34	0.79	12.63
% RSD		#DIV/0!	173.21	#DIV/0!	87.55	173.21	73.24	105.97
Min		0.00	0.00	0.00	0.05	0.00	0.46	1.05
Max		0.00	0.91	0.00	0.68	3.87	1.97	25.78
n		3	3	3	3	3	3	3
3/2/92-2.1-A	2	0.00	12.27	16.20	14.84	25.62	43.23	19.97
3/2/92-2.1-B	2	0.00	0.00	26.71	14.97	23.50	43.35	7.45
Average		0.00	6.14	21.45	14.91	27.06	43.38	13.71
St. Dev.		0.00	8.68	7.43	0.09	2.04	0.29	8.86
% RSD		#DIV/0!	141.42	34.64	0.58	7.34	0.55	64.61
Min		0.00	0.00	16.20	14.84	23.62	43.23	7.45
Max		0.00	12.27	26.71	14.97	25.50	43.35	19.97
n		2	2	2	2	2	2	2
3/2/92-2.2-A	2	0.00	0.00	26.63	16.89	57.35	44.80	19.20
3/2/92-2.2-B	2	0.00	0.00	41.18	20.29	79.32	59.36	19.84
Average		0.00	0.00	33.91	18.59	68.34	52.08	19.52
St. Dev.		0.00	0.00	10.29	2.40	15.54	10.29	0.45
% RSD		#DIV/0!	#DIV/0!	30.34	12.92	22.74	19.77	2.33
Min		0.00	0.00	26.63	16.89	57.35	44.80	19.20
Max		0.00	0.00	41.18	20.29	79.32	59.36	19.84
n		2	2	2	2	2	2	2
3/4/92-2.1-A	1	0.00	0.00	11.82	8.29	0.00	23.84	8.88
3/4/92-2.1-B	2	0.00	0.00	13.57	8.64	0.00	23.35	9.87
Average		0.00	0.00	12.60	8.47	0.00	24.68	8.97
St. Dev.		0.00	0.00	1.36	0.23	0.00	1.20	0.14
% RSD		#DIV/0!	#DIV/0!	10.97	2.93	#DIV/0!	4.84	1.52
Min		0.00	0.00	11.82	8.29	0.00	23.84	8.88
Max		0.00	0.00	13.57	8.64	0.00	23.35	9.87
n		2	2	2	2	2	2	2
Average		0.00	2.05	22.65	13.95	31.80	40.05	14.07
St. Dev.		0.00	5.61	11.15	4.71	31.57	13.35	6.17
% RSD		#DIV/0!	244.95	49.22	33.67	99.28	33.34	43.86
Min		0.00	0.00	11.82	8.29	0.00	23.84	7.45
Max		0.00	12.27	41.18	20.29	79.35	59.36	19.97
n		6	6	6	6	6	6	6
3/10/92-3.1-A	3	0.00	0.00	8.57	3.99	30.87	24.50	4.73
3/10/92-3.1-B	3	0.00	0.00	10.84	9.94	33.92	28.12	10.71
Average		0.00	0.00	9.71	6.89	31.99	26.31	7.72
St. Dev.		0.00	0.00	1.61	4.24	2.72	2.56	4.25
% RSD		#DIV/0!	#DIV/0!	16.57	60.64	8.51	9.72	54.75
Min		0.00	0.00	8.57	3.99	30.87	24.50	4.73
Max		0.00	0.00	10.84	9.94	33.92	28.12	10.71
n		1	2	2	2	2	2	2
3/10/92-3.2-A	3	0.00	0.00	10.32	10.65	35.30	29.39	9.11
3/10/92-3.2-B	3	0.00	0.00	12.12	12.49	39.28	33.94	21.37
Average		0.00	0.00	11.22	11.57	37.29	31.67	15.24
St. Dev.		0.00	0.00	1.27	1.30	2.82	3.21	8.67
% RSD		#DIV/0!	#DIV/0!	11.33	11.23	7.35	10.15	56.88
Min		0.00	0.00	10.32	10.65	35.30	29.39	9.11
Max		0.00	0.00	12.12	12.49	39.28	33.94	21.37
n		2	2	2	2	2	2	2
Average		0.00	0.00	10.44	9.28	34.64	28.99	11.48
St. Dev.		0.00	0.00	1.47	3.66	3.80	3.90	7.06
% RSD		#DIV/0!	#DIV/0!	14.04	39.66	10.98	13.45	61.49
Min		0.00	0.00	8.57	3.99	30.87	24.50	4.73
Max		0.00	0.00	12.12	12.49	39.28	33.94	21.37
n		4	4	4	4	4	4	4
4.1-B (21-3)	4	18.15	0.00	399.35	163.65	633.64	427.28	214.37
3/18/92-4.2-A	4	7.23	0.00	331.68	129.44	639.06	457.14	75.47
3/18/92-4.2-B	4	7.63	0.00	389.70	125.48	719.22	493.67	76.69
Average		7.43	0.00	389.69	125.50	689.14	473.00	75.94
St. Dev.		0.28	0.00	41.00	3.51	42.34	25.37	0.72
% RSD		3.82	#DIV/0!	11.36	2.84	6.17	5.32	0.95
Min		7.23	0.00	331.68	129.44	639.06	457.14	75.47
Max		7.63	0.00	389.70	125.48	719.22	493.67	76.69
n		2	2	2	2	2	2	2
Average		9.34	0.00	371.38	136.30	648.30	459.04	122.11
St. Dev.		1.98	0.00	34.80	23.65	46.98	32.84	79.90
% RSD		18.95	#DIV/0!	9.31	17.33	7.08	7.15	65.43
Min		7.23	0.00	331.68	129.44	636.64	427.28	75.47
Max		10.15	0.00	399.35	163.65	719.22	492.87	214.37
n		3	3	3	3	3	3	3

APPENDIX 3. BLACK ROCK HARBOR PES 3 DATA (BRH PES 3)

A3-Page 6

ND = Not Determined.

[illegible]

5.18 P803	Dynamometer %	4.42 psi (3.4 5)	25.749 psi (4.1.75 G) Average 2	5.18 P803	5.18 P803	5.18 P803	5.18 P803	5.18 P803	5.18 P803
1/30/92-0.0	0			0.00					
1/30/92-0.1	0								
1/30/92-0.2	0								
1/30/92-0.3	0								
Average		80.0V/M	80.0V/M	0.0000	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
St. Dev.		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Max		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
n		0	0	1	0	0	0	0	0
1/30/92-2.1-A	2								
1/30/92-2.1-B	2								
Average		82.00	8.10	10.20	10.30	12.43	22.16	26.50	99.94
St. Dev.		22.6430	8.1000	100.0000	10.0000	12.4300	22.1600	26.5000	99.9400
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
n		1	1	1	1	1	1	1	1
1/30/92-2.3-A	2								
1/30/92-2.3-B	2								
Average		82.78	6.54	100.00	10.30	12.85	21.56	25.38	99.97
St. Dev.		26.1240	6.5400	100.0000	10.0000	12.8500	21.5600	25.3800	99.9700
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
n		1	1	1	1	1	1	1	1
Average		84.0000	7.2000	100.0000	10.0000	12.6300	21.8700	26.3900	99.9600
St. Dev.		1.5485	1.1000	0.0000	0.0000	0.3000	0.4000	0.7000	0.0000
% RSD		2	15	0	0	2	2	2	0
Min		83.0000	6.5000	100.0000	10.0000	12.4000	21.8000	26.0000	99.9000
Max		85.7000	8.1000	100.0000	10.0000	12.8000	22.1000	26.7000	99.9700
n		2	2	2	2	2	2	2	2
4/1/92-3.1-A	3								
4/1/92-3.1-B	3								
Average		85.10	7.75	100.00	10.30	13.45	22.59	25.80	99.98
St. Dev.		13.1000	7.7500	100.0000	10.0000	13.4500	22.5900	25.8000	99.9800
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		86.1000	7.7500	100.0000	10.0000	13.4500	22.5900	25.8000	99.9800
n		1	1	1	1	1	1	1	1
4/1/92-3.3-A	3								
4/1/92-3.3-B	3								
Average		83.34	8.25	100.00	10.30	11.77	20.11	25.00	99.97
St. Dev.		10.5000	8.2500	100.0000	10.0000	11.7700	20.1100	25.0000	99.9700
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		85.0000	8.2500	100.0000	10.0000	11.7700	20.1100	25.0000	99.9700
n		1	1	1	1	1	1	1	1
Average		83.0000	8.0000	100.0000	10.0000	12.0000	20.0000	25.0000	99.9700
St. Dev.		1.7500	0.0000	0.0000	0.0000	1.0000	1.0000	0.0000	0.0000
% RSD		2	0	0	0	8	5	0	0
Min		80.0V/M	7.7500	100.0000	10.0000	11.7700	20.0000	25.0000	99.9700
Max		85.1000	8.2500	100.0000	10.0000	12.0000	20.0000	25.0000	99.9700
n		2	2	2	2	2	2	2	2
4/2/92-4.1-A	4								
4/2/92-4.1-B	4								
Average		83.40	10.00	99.99	10.30	15.41	27.00	30.07	99.99
St. Dev.		10.0000	10.0000	99.9900	10.0000	15.4100	27.0000	30.0700	99.9900
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		83.4000	10.0000	99.9900	10.0000	15.4100	27.0000	30.0700	99.9900
n		1	1	1	1	1	1	1	1
4/2/92-4.3-A	4								
4/2/92-4.3-B	4								
Average		85.00	6.94	100.01	10.30	12.94	21.00	23.00	99.99
St. Dev.		10.0000	6.9400	100.0100	10.0000	12.9400	21.0000	23.0000	99.9900
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Max		85.0000	6.9400	100.0100	10.0000	12.9400	21.0000	23.0000	99.9900
n		1	1	1	1	1	1	1	1
Average		84.5000	8.0000	100.0000	10.0000	14.1700	23.0000	26.0000	99.9900
St. Dev.		1.0000	2.0000	0.0000	0.0000	1.0000	1.0000	0.0000	0.0000
% RSD		3	30	0	0	13	13	0	0
Min		83.0000	6.9400	99.9900	10.0000	12.9400	20.0000	23.0000	99.9900
Max		85.0000	10.0000	100.0100	10.0000	15.4100	27.0000	30.0700	99.9900
n		2	2	2	2	2	2	2	2
4/3/92-5.1-A	5								
4/3/92-5.1-B	5								
Average		71.00	21.25	100.00	25.56	20.00	32.37	44.54	99.99
St. Dev.		71.0000	21.2500	100.0000	25.5600	20.0000	32.3700	44.5400	99.9900
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		71.0000	21.2500	100.0000	25.5600	20.0000	32.3700	44.5400	99.9900
Max		71.0000	21.2500	100.0000	25.5600	20.0000	32.3700	44.5400	99.9900
n		1	1	1	1	1	1	1	1
4/3/92-5.3-A	5								
4/3/92-5.3-B	5								
Average		83.54	7.75	100.00	10.30	14.00	23.00	24.93	99.99
St. Dev.		10.5000	7.7500	100.0000	10.0000	14.0000	23.0000	24.9300	99.9900
% RSD		80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M	80.0V/M
Min		80.0V/M	7.7500	100.0000	10.0000	14.0000	23.0000	24.9300	99.9900
Max		85.5000	7.7500	100.0000	10.0000	14.0000	23.0000	24.9300	99.9900
n		1	1	1	1	1	1	1	1
Average		70.1100	14.5100	100.0000	10.0000	17.2000	31.2100	34.7200	99.9900
St. Dev.		10.2177	9.5672	0.0000	0.0000	4.5300	11.5000	13.0000	0.0000
% RSD		13	66	0	0	26	37	40	0
Min		71.0000	7.7500	100.0000	10.0000	14.0000	23.0000	24.9300	99.9900
Max		85.5000	21.2500	100.0000	25.5600	20.0000	32.3700	44.5400	99.9900
n		2	2	2	2	2	2	2	2

BRH PERS	Dynamics/4	Appendix 3: BRH PERS 3										
		CB104, ng/l	CB105, ng/l	CB106, ng/l	CB107, ng/l	CB108, ng/l	CB109, ng/l	CB110, ng/l	CB111, ng/l	CB112, ng/l	CB113, ng/l	CB114, ng/l
3/30/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/1/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/2/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/92-0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
St. Dev.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% RSD		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/30/92-2.1-A	2	21.54	102.18	97.66	144.19	9.92	21.80	24.40	0.00	40.20	20.40	20.40
3/30/92-2.1-B	2	31.61	114.84	93.23	155.63	13.97	26.04	22.86	0.00	42.07	15.82	15.82
Average		26.50	108.51	95.44	159.90	11.95	24.42	23.67	0.00	41.14	17.75	17.75
St. Dev.		6.68	8.86	3.13	8.23	2.86	2.39	1.15	0.00	1.32	3.86	3.86
% RSD		25	8	3	5	24	9	5	0.00	3	22	22
Min		21.86	102.18	93.23	144.19	9.92	21.80	22.86	0.00	40.20	15.82	15.82
Max		31.61	114.84	97.66	159.90	13.97	26.04	24.40	0.00	42.07	20.40	20.40
3/30/92-2.2-A	2	23.97	109.19	76.35	146.27	11.06	24.74	20.25	0.00	40.32	14.41	14.41
3/30/92-2.2-B	2	33.13	113.93	93.92	153.97	12.74	26.44	21.61	0.00	43.48	15.44	15.44
Average		28.55	111.56	85.13	150.12	11.90	25.59	20.94	0.00	41.80	14.93	14.93
St. Dev.		6.86	4.77	12.42	6.70	1.18	1.28	1.81	0.00	2.24	0.73	0.73
% RSD		24	4	15	4	10	5	9	0.00	5	5	5
Min		23.97	109.19	76.35	146.27	11.06	24.74	20.25	0.00	40.32	14.41	14.41
Max		33.13	113.93	93.92	153.97	12.74	26.44	21.61	0.00	43.48	15.44	15.44
3/30/92-2.3-A	2	26.41	110.63	68.29	148.54	11.93	25.00	20.25	0.00	41.62	14.94	14.94
3/30/92-2.3-B	2	40.61	118.43	7.48	159.57	12.74	26.44	21.61	0.00	43.48	15.44	15.44
Average		33.51	114.53	37.89	154.05	12.33	25.72	20.94	0.00	42.55	15.19	15.19
St. Dev.		6.86	4.77	12.42	6.70	1.18	1.28	1.81	0.00	2.24	0.73	0.73
% RSD		20	4	33	4	10	5	9	0.00	5	5	5
Min		26.41	110.63	68.29	148.54	11.93	25.00	20.25	0.00	41.62	14.94	14.94
Max		40.61	118.43	7.48	159.57	12.74	26.44	21.61	0.00	43.48	15.44	15.44
4/1/92-3.1-A	3	28.82	123.37	101.27	164.97	11.47	29.45	27.98	0.00	51.84	16.01	16.01
4/1/92-3.1-B	3	30.78	74.90	97.83	132.56	10.88	19.95	15.16	0.00	33.27	15.40	15.40
Average		29.80	99.60	99.55	148.77	11.17	24.70	21.57	0.00	42.56	15.75	15.75
St. Dev.		4.67	34.30	30.72	8.71	0.63	6.72	3.87	0.00	11.71	11.77	11.77
% RSD		16	35	31	6	6	27	18	0.00	28	75	75
Min		28.18	74.90	97.83	132.56	10.88	19.95	15.16	0.00	33.27	15.40	15.40
Max		30.78	123.37	101.27	164.97	11.47	29.45	27.98	0.00	51.84	16.01	16.01
4/1/92-3.2-A	3	27.72	127.71	98.64	160.61	10.81	28.35	21.54	0.00	43.19	14.90	14.90
4/1/92-3.2-B	3	23.74	83.48	91.64	138.00	10.37	13.27	21.40	1.31	46.62	14.72	14.72
Average		25.73	105.60	95.14	149.30	10.59	20.81	21.47	0.66	44.90	14.81	14.81
St. Dev.		1.30	7.40	13	5	3	1.41	21	1.41	14	39	39
% RSD		5	7	13	3	3	7	63	21	31	26	26
Min		25.73	105.60	95.14	149.30	10.59	20.81	21.47	0.66	44.90	14.81	14.81
Max		27.72	127.71	98.64	160.61	10.81	28.35	21.54	1.31	46.62	14.90	14.90
4/2/92-4.1-A	4	38.50	437.33	398.32	685.22	42.21	107.61	105.44	7.23	177.72	84.83	84.83
4/2/92-4.1-B	4	31.34	47.93	317.04	370.74	41.13	125.26	93.83	11.15	184.28	87.34	87.34
Average		34.92	442.62	357.68	628.98	41.68	116.34	94.68	10.19	181.00	86.04	86.04
St. Dev.		2.01	7.90	36.36	48.30	0.74	12.36	15.27	1.36	4.64	1.71	1.71
% RSD		6	2	10	8	2	11	16	13	3	2	2
Min		38.50	437.33	398.32	685.22	42.21	107.61	105.44	7.23	177.72	84.83	84.83
Max		31.34	47.93	317.04	370.74	41.13	125.26	93.83	11.15	184.28	87.34	87.34
4/2/92-4.2-A	4	117.16	986.07	528.48	784.86	61.16	150.17	142.58	26.26	230.90	108.86	108.86
4/2/92-4.2-B	4	117.65	995.83	506.23	87.80	38.80	139.81	109.17	30.17	240.78	125.91	125.91
Average		117.40	990.96	517.33	426.38	50.93	145.44	141.19	28.22	236.84	117.30	117.30
St. Dev.		0.34	4.91	15.84	488.83	1.74	2.23	1.96	2.76	6.98	12.86	12.86
% RSD		0	1	3	113	3	1	1	10	3	11	11
Min		117.16	986.07	506.23	87.80	38.80	139.81	109.17	26.26	230.90	108.86	108.86
Max		117.65	995.83	528.48	784.86	61.16	150.17	142.58	30.17	240.78	125.91	125.91
4/3/92-5.1-A	5	103.46	516.79	424.31	519.68	98.80	133.90	117.92	19.30	262.42	103.71	103.71
4/3/92-5.1-B	5	15.01	82.84	103.80	361.91	10.96	21.63	28.30	10.54	32.53	19.43	19.43
Average		89.23	299.81	264.06	440.80	54.88	77.76	73.11	14.92	197.47	111.57	111.57
St. Dev.		6.57	41.83	69.80	61.88	2.97	11.30	14.06	1.84	9.41	5.61	5.61
% RSD		7	14	26	14	5	15	19	12	5	5	5
Min		114.97	506.07	302.48	733.00	53.17	141.36	103.33	18.41	211.24	112.78	112.78
Max		124.11	637.36	497.44	523.47	96.10	157.46	123.22	20.82	274.85	120.60	120.60
4/3/92-5.2-A	5	104.43	533.76	408.70	715.07	52.25	136.10	105.46	25.86	190.61	102.36	102.36
4/3/92-5.2-B	5	11.94	87.71	104.64	376.73	10.43	21.63	28.30	10.54	32.53	19.43	19.43
Average		88.50	297.32	262.94	440.80	54.88	77.76	73.11	14.92	197.47	111.57	111.57
St. Dev.		6.57	41.83	69.80	61.88	2.97	11.30	14.06	1.84	9.41	5.61	5.61
% RSD		7	14	26	14	5	15	19	12	5	5	5
Min		114.97	506.07	302.48	733.00	53.17	141.36	103.33	18.41	211.24	112.78	112.78
Max		124.11	637.36	497.44	523.47	96.10	157.46	123.22	20.82	274.85	120.60	120.60
4/3/92-5.3-A	5	104.43	533.76	408.70	715.07	52.25	136.10	105.46	25.86	190.61	102.36	102.36
4/3/92-5.3-B	5	11.94	87.71	104.64	376.73	10.43	21.63	28.30	10.54	32.53	19.43	19.43
Average		88.50	297.32	262.94	440.80	54.88	77.76	73.11	14.92	197.47	111.57	111.57
St. Dev.		6.57	41.83	69.80	61.88	2.97	11.30	14.06	1.84	9.41	5.61	5.61
% RSD		7	14	26	14	5	15	19	12	5	5	5
Min		114.97	506.07	302.48	733.00	53.17	141.36	103.33	18.41	211.24	112.78	112.78
Max		124.11	637.36	497.44	523.47	96.10	157.46	123.22	20.82	274.85	120.60	120.60

Appendix 3: MHH PHS 3

BSM PHS3	Dynamics	CH196, ng/l	CH204, ng/l	CH209, ng/l	CB mass, ng/l	Σ PCB, ng/l	MCA, ng/l	HEPT, ng/l	ALDRIN, ng/l	OP'DDR, ng/l
3/30/92-0.0	0	0.00	0.00	0.00	6.74	0.00	1.63	0.00	0.00	0.00
4/1/92-0.0	0	0.00	0.00	0.00	3.51	0.00	0.00	0.00	0.00	0.00
4/1/92-0.0	0	0.00	0.00	0.00	13.75	0.00	2.14	0.00	0.00	0.00
4/1/92-0.0	0	0.00	0.00	0.04	22.48	0.00	18.84	0.00	2.70	10.19
Average		0.00	0.00	0.01	11.37	0.00	1.65	0.00	0.00	2.76
St. Dev.		0.00	0.00	0.02	8.74	0.00	0.04	0.00	1.20	4.96
% RSD		NDIV/N	NDIV/N	200	77	0.00	194	NDIV/N	161	179
Min		0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	0.00
Max		0.00	0.00	0.04	22.48	0.00	18.84	0.00	2.70	10.19
n		400	400	400	400	0.00	400	400	400	400
3/30/92-1.1-A	1	1.85	0.00	4.21	1552.00	0.00	6.99	0.00	0.00	37.20
3/30/92-1.1-B	2	3.52	0.00	1.61	1781.77	0.00	5.92	0.00	0.00	26.16
Average		2.68	0.00	3.91	1666.89	0.00	6.35	0.00	0.00	32.72
St. Dev.		1.84	0.00	0.45	162.47	0.00	0.65	0.00	0.00	6.45
% RSD		40	NDIV/N	11	10	0.00	8	NDIV/N	NDIV/N	20
Min		1.85	0.00	3.62	1552.00	0.00	5.92	0.00	0.00	26.16
Max		3.52	0.00	4.21	1781.77	0.00	6.99	0.00	0.00	37.20
n		2	2	2	2	0	2	2	2	2
3/30/92-1.2-A	2	7.87	3.84	9.94	1603.23	0.00	6.81	0.00	0.00	27.27
3/30/92-1.2-B	2	1.79	0.00	0.36	1742.73	0.00	6.19	0.00	0.00	27.95
Average		4.83	1.92	9.15	1672.97	0.00	6.50	0.00	0.00	27.61
St. Dev.		4.31	2.71	1.11	96.46	0.00	0.44	0.00	0.00	0.41
% RSD		89	140	12	6	0.00	7	NDIV/N	NDIV/N	1
Min		1.79	0.00	0.36	1603.23	0.00	6.19	0.00	0.00	27.27
Max		7.87	3.84	9.94	1742.73	0.00	6.81	0.00	0.00	27.95
n		2	2	2	2	0	2	2	2	2
Average		3.70	0.96	6.53	1669.93	0.00	6.36	0.00	0.00	26.14
St. Dev.		2.87	1.92	3.10	109.80	0.00	0.40	0.00	0.00	4.78
% RSD		77	200	48	7	0.00	6	NDIV/N	NDIV/N	16
Min		1.79	0.00	3.62	1552.00	0.00	5.92	0.00	0.00	26.16
Max		7.87	3.84	9.94	1742.73	0.00	6.81	0.00	0.00	27.95
n		4	4	4	4	0	4	4	4	4
4/1/92-1.1-A	3	7.06	1.94	5.00	1707.33	0.00	6.63	0.00	0.00	34.25
4/1/92-1.1-B	3	35.41	14.36	17.17	1127.16	0.00	2.54	0.00	0.00	18.51
Average		21.23	8.11	11.89	1417.25	0.00	5.09	0.00	0.00	26.39
St. Dev.		26.84	8.84	8.69	48.34	0.00	4.20	0.00	0.00	11.14
% RSD		94	109	78	34	0.00	77	NDIV/N	NDIV/N	43
Min		7.06	1.94	5.00	1127.16	0.00	2.54	0.00	0.00	18.51
Max		35.41	14.36	17.17	1707.33	0.00	6.63	0.00	0.00	34.25
n		2	2	2	2	0	2	2	2	2
4/1/92-1.2-A	3	2.98	0.00	4.83	1710.40	0.00	5.12	0.00	0.00	41.80
4/1/92-1.2-B	3	6.41	0.00	0.71	1510.29	0.00	5.20	0.00	0.00	23.61
Average		4.23	0.00	6.77	1610.30	0.00	5.20	0.00	0.00	32.63
St. Dev.		3.08	0.00	2.77	141.56	0.00	0.11	0.00	0.00	12.74
% RSD		73	NDIV/N	41	9	0.00	2	NDIV/N	NDIV/N	20
Min		2.98	0.00	4.83	1510.29	0.00	5.12	0.00	0.00	23.61
Max		6.41	0.00	0.71	1710.40	0.00	5.20	0.00	0.00	41.80
n		2	2	2	2	0	2	2	2	2
Average		13.73	4.86	8.80	1513.82	0.00	5.20	0.00	0.00	26.90
St. Dev.		14.26	4.80	5.78	27.45	0.00	3.48	0.00	0.00	10.41
% RSD		120	171	66	18	0.00	46	NDIV/N	NDIV/N	38
Min		2.98	0.00	4.83	1127.16	0.00	2.54	0.00	0.00	18.51
Max		35.41	14.36	17.17	1710.40	0.00	6.63	0.00	0.00	41.80
n		4	4	4	4	0	4	4	4	4
4/2/92-1.1-A	4	40.73	7.05	20.44	6204.35	0.00	23.05	0.00	0.00	134.93
4/2/92-1.1-B	4	39.41	34.92	20.45	6233.67	0.00	23.83	0.00	0.00	72.30
Average		40.07	26.99	20.46	6173.99	0.00	23.44	0.00	0.00	103.62
St. Dev.		8.93	13.70	6.87	170.16	0.00	0.95	0.00	0.00	44.39
% RSD		22	94	33	3	0.00	4	NDIV/N	NDIV/N	43
Min		39.41	7.05	20.44	6033.67	0.00	23.05	0.00	0.00	72.30
Max		40.73	34.92	20.46	6204.35	0.00	23.83	0.00	0.00	134.93
n		2	2	2	2	0	2	2	2	2
4/2/92-1.2-A	4	31.36	23.02	37.12	9451.80	0.00	27.39	0.00	0.00	0.00
4/2/92-1.2-B	4	34.77	34.91	41.46	8735.11	0.00	26.60	0.00	0.00	0.00
Average		33.07	28.97	39.29	9093.90	0.00	27.04	0.00	0.00	0.00
St. Dev.		2.41	6.46	3.40	280.27	0.00	0.40	0.00	0.00	0.00
% RSD		7	29	8	2	0.00	2	NDIV/N	NDIV/N	NDIV/N
Min		31.36	23.02	37.12	9451.80	0.00	26.60	0.00	0.00	0.00
Max		34.77	34.91	41.46	8735.11	0.00	27.39	0.00	0.00	0.00
n		2	2	2	2	0	2	2	2	2
Average		26.97	24.93	21.82	7383.75	0.00	25.24	0.00	0.00	91.81
St. Dev.		4.31	13.30	9.37	1408.12	0.00	2.12	0.00	0.00	68.85
% RSD		12	53	40	19	0.00	8	NDIV/N	NDIV/N	126
Min		21.36	7.05	20.46	6033.67	0.00	23.05	0.00	0.00	0.00
Max		40.73	34.92	41.46	8735.11	0.00	27.39	0.00	0.00	134.93
n		4	4	4	4	0	4	4	4	4
4/3/92-1.1-A	5	24.18	21.28	21.32	4908.78	0.00	18.44	0.00	0.00	79.91
4/3/92-1.1-B	5	43.27	33.82	30.82	7367.13	0.00	26.99	0.00	0.00	119.23
Average		38.72	28.15	26.07	6137.96	0.00	22.72	0.00	0.00	99.57
St. Dev.		13.80	9.72	6.72	1736.31	0.00	6.05	0.00	0.00	27.81
% RSD		40	35	26	28	0.00	27	NDIV/N	NDIV/N	28
Min		24.18	21.28	21.32	4908.78	0.00	18.44	0.00	0.00	79.91
Max		43.27	33.82	30.82	7367.13	0.00	26.99	0.00	0.00	119.23
n		2	2	2	2	0	2	2	2	2
4/3/92-1.2-A	5	41.28	36.15	27.98	8780.50	0.00	29.84	0.00	0.00	171.62
4/3/92-1.2-B	5	36.28	38.64	40.31	7125.06	0.00	27.68	0.00	0.00	82.32
Average		38.79	37.40	34.14	7952.70	0.00	28.76	0.00	0.00	126.97
St. Dev.		3.83	1.76	8.73	1154.43	0.00	1.53	0.00	0.00	63.15
% RSD		9	5	26	15	0.00	5	NDIV/N	NDIV/N	56
Min		36.28	36.15	27.98	7125.06	0.00	27.68	0.00	0.00	82.32
Max		41.28	38.64	40.31	8780.50	0.00	29.84	0.00	0.00	171.62
n		2	2	2	2	0	2	2	2	2
Average		34.26	32.77	30.10	7048.37	0.00	25.74	0.00	0.00	113.27
St. Dev.		8.97	7.81	1.28	1992.37	0.00	5.91	0.00	0.00	41.86
% RSD		24	24	4	23	0.00	19	NDIV/N	NDIV/N	38
Min		24.18	21.28	21.32	4908.78	0.00	18.44	0.00	0.00	79.91
Max		43.27	38.64	40.31	8780.50	0.00	29.84	0.00	0.00	171.62
n		4	4	4	4	0	4	4	4	4

APPENDIX 4. PROVIDENCE RIVER PES DATA (PR PES)

Appendix 4: PR PES

PRR PES	Dynamics*2	Filtered	Anal Filtered, g	Vol Filtered, ml	TSS, mg/L	CB006, ng/g	CB016, ng/g	CB026, ng/g	CB046, ng/g	CB016, ng/g	CB026, ng/g
4/27/92-0.0	0	85	0.0072	100.0	2.00						
4/28/92-0.0	0	93	0.0037	100.0	27.00	0.00	26.48	0.00	0.00	25.48	26.83
4/28/92-0.0	0	96	0.0033	100.0	33.00						
4/30/92-0.0	0	108	0.0045	100.0	44.80	0.00	0.00	0.00	101.78	67.14	196.08
Average	0		0.0047	100.00	26.70	0.00	13.34	0.00	99.89	64.38	131.45
St. Dev.			0.0018	0.00	18.88	0.00	18.73	0.00	71.97	43.60	123.47
% RSD			07.4885	0	68	NDIV/NI	141	NDIV/NI	141	77	110
Min			0.0008	100.00	2.00	0.00	0.00	0.00	26.48	24.88	24.88
Max			0.0046	100.00	44.80	0.00	26.48	0.00	101.78	67.14	196.08
n	4		4.0000	4	4	2	2	2	2	2	2
4/27/92-2.1-A	2	90	0.0101	40.3	206.04						
4/27/92-2.1-B	2	90	0.0101	51.0	198.04	7.20	4.92	0.00	0.00	26.20	15.15
Average	2		0.0102	50.35	202.04	7.20	4.92	0.00	0.00	26.20	15.15
St. Dev.			0.0004	1.04	5.57	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
% RSD			0.0007	2	3	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
Min			0.0101	40.30	198.04	7.20	4.92	0.00	0.00	26.20	15.15
Max			0.0103	51.00	206.04	7.20	4.92	0.00	0.00	26.20	15.15
n	2		2.0000	2	2	1	1	1	1	1	1
4/27/92-2.3-A	2	91	0.0177	30.0	214.00						
4/27/92-2.3-B	2	92	0.0105	30.0	210.00						
Average	2		0.0146	30.00	212.00	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
St. Dev.			0.0001	0.00	2.83	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
% RSD			1.3343	0	1	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
Min			0.0105	30.00	210.00	0.00	0.00	0.00	0.00	0.00	0.00
Max			0.0177	30.00	214.00	0.00	0.00	0.00	0.00	0.00	0.00
n	2		2.0000	2	2	0	0	0	0	0	0
Average	2		0.0104	30.13	207.00	7.20	4.92	0.00	0.00	26.20	15.15
St. Dev.			0.0003	0.63	6.81	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
% RSD			2.6843	1	3	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI	NDIV/NI
Min			0.0101	30.00	198.04	7.20	4.92	0.00	0.00	26.20	15.15
Max			0.0177	30.00	214.00	7.20	4.92	0.00	0.00	26.20	15.15
n	4		4.0000	4	4	1	1	1	1	1	1
4/28/92-3.1-A	3	94	0.0088	30.0	736.00	0.00	0.00	0.00	0.00	5.00	3.75
4/28/92-3.1-B	3	95	0.0064	30.0	928.00	0.00	1.43	0.00	0.00	12.18	12.11
Average	3		0.0076	30.00	832.00	0.00	0.78	0.00	0.00	8.59	7.93
St. Dev.			0.0005	0.00	135.76	0.00	0.94	0.00	0.00	5.82	5.91
% RSD			6.38176	0	16	14	120	NDIV/NI	NDIV/NI	70	74
Min			0.0068	30.00	736.00	0.00	0.00	0.00	0.00	5.00	3.75
Max			0.0084	30.00	928.00	0.00	1.43	0.00	0.00	12.18	12.11
n	3		3.0000	3	3	1	1	1	1	1	1
4/28/92-3.3-A	3	96	0.0044	30.0	1088.00	0.00	0.34	0.00	0.00	6.30	4.36
4/28/92-3.3-B	3	97	0.0134	30.0	1088.00	0.00	0.00	4.19	10.51	9.30	12.74
Average	3		0.0089	30.00	1078.00	0.00	0.12	2.50	8.36	7.80	8.80
St. Dev.			0.0007	0.00	14.14	0.00	0.17	2.34	7.43	2.18	3.90
% RSD			1.3619	0	1	NDIV/NI	34	14	14	28	44
Min			0.0044	30.00	1088.00	0.00	0.00	0.00	0.00	6.30	4.36
Max			0.0134	30.00	1088.00	0.00	0.34	4.19	10.51	9.30	12.74
n	3		3.0000	3	3	1	1	1	1	1	1
Average	3		0.0078	30.00	908.00	0.00	0.44	1.86	2.43	8.34	8.34
St. Dev.			0.0001	0.00	101.00	0.00	0.07	1.10	5.35	11.19	4.80
% RSD			17.0001	0	17	200	164	200	200	30	58
Min			0.0068	30.00	736.00	0.00	0.00	0.00	0.00	5.00	3.75
Max			0.0084	30.00	1088.00	0.00	1.43	4.19	10.51	12.18	12.74
n	4		4.0000	4	4	1	1	1	1	1	1
4/28/92-4.1-A	4	99	0.0077	30.0	1843.00	0.00	0.33	0.00	0.00	3.22	3.73
4/28/92-4.1-B	4	100	0.0038	30.0	1876.00	0.30	0.01	0.00	0.00	5.40	5.50
Average	4		0.0058	30.00	1869.70	0.30	0.07	0.00	0.00	4.30	4.61
St. Dev.			0.0008	1.23	23.00	0.40	0.34	0.00	0.00	3.73	3.82
% RSD			2.8894	4	1	140	40	NDIV/NI	NDIV/NI	64	74
Min			0.0038	30.00	1843.00	0.00	0.00	0.00	0.00	3.22	3.73
Max			0.0077	30.00	1876.00	0.30	0.01	0.00	0.00	5.40	5.50
n	2		2.0000	2	2	1	1	1	1	1	1
4/28/92-4.3-A	4	101	0.1006	30.0	2042.00	18.97	1.80	1.80	14.86	14.84	19.08
4/28/92-4.3-B	4	102	0.1013	30.0	2050.00	0.00	0.06	0.00	0.00	1.00	1.00
Average	4		0.1010	30.00	2046.00	9.48	0.93	2.90	7.43	8.50	11.03
St. Dev.			0.0004	0.00	12.73	13.40	1.23	4.25	10.91	7.90	10.00
% RSD			0.4390	0	1	140	130	140	140	86	90
Min			0.1006	30.00	2042.00	0.00	0.06	0.00	0.00	1.00	1.00
Max			0.1013	30.00	2050.00	18.97	1.80	1.80	14.86	14.84	19.08
n	3		3.0000	3	3	1	1	1	1	1	1
Average	4		0.0984	30.75	1940.36	4.80	0.78	1.40	1.72	7.84	8.72
St. Dev.			0.0005	1.00	94.36	9.30	0.77	2.90	1.63	8.62	7.19
% RSD			1.8293	3	5	194	100	200	200	73	80
Min			0.0980	30.00	1843.00	0.00	0.06	0.00	0.00	3.22	3.73
Max			0.1013	30.00	2050.00	18.97	1.80	1.80	14.86	14.84	19.08
n	4		4.0000	4	4	1	1	1	1	1	1
4/30/92-5.1-A	5	106	0.2436	30.0	4872.00	0.00	0.30	2.91	9.80	10.02	9.13
4/30/92-5.1-B	5	107	0.2083	30.0	3964.00	1.80	1.00	0.00	0.00	0.20	7.70
Average	5		0.2259	30.00	4418.00	0.90	0.64	1.46	4.90	5.15	8.38
St. Dev.			0.0007	0.00	773.87	1.20	0.30	2.86	4.90	6.20	1.10
% RSD			16.3781	0	16	140	40	140	140	124	13
Min			0.2436	30.00	4872.00	0.00	0.30	0.00	0.00	0.20	7.70
Max			0.2436	30.00	3964.00	1.80	1.00	2.91	9.80	10.02	9.13
n	2		2.0000	2	2	1	1	1	1	1	1
4/30/92-5.3-A	5	109	0.1834	30.0	8080.00	0.73	1.40	0.00	0.00	8.55	7.70
4/30/92-5.3-B	5	110	0.1950	30.0	6453.33	0.93	1.04	0.00	0.00	8.20	1.25
Average	5		0.1892	30.00	7266.67	0.83	1.27	0.00	0.00	8.38	7.98
St. Dev.			0.0001	0.00	371.06	0.14	0.32	0.00	0.00	9.28	0.30
% RSD			4.3319	0	4	17	26	NDIV/NI	NDIV/NI	3	8
Min			0.1834	30.00	6080.00	0.73	1.04	0.00	0.00	8.20	7.70
Max			0.1950	30.00	8080.00	0.93	1.40	0.00	0.00	8.55	8.25
n	2		2.0000	2	2	1	1	1	1	1	1
Average	5		0.2204	30.00	3946.33	0.80	1.08	0.73	2.48	6.76	8.18
St. Dev.			0.0000	11.38	682.67	0.70	0.37	1.46	1.50	4.30	0.71
% RSD			23.6743	38	12	86	36	200	200	64	9
Min			0.1834	30.00	4872.00	0.00	0.30	0.00	0.00	0.20	7.70
Max			0.2436	30.00	8080.00	0.93	1.40	2.91	9.80	10.02	9.13
n	4		4.0000	4	4	1	1	1	1	1	1

Appendix 4: PR PES

FILE	PAGE	Dynamics-2	C3187, kg/s	C3186, kg/s	C3126, kg/s	C3125, kg/s	C3187, kg/s	C3126, kg/s	C3186, kg/s	C3185, kg/s	C3179, kg/s
4/21/P2-0.0	0										
4/21/P2-0.0	0		0.00	10.04	20.43	0.00	1.04	2.07	0.00	0.70	179.40
4/21/P2-0.0	0		19.08	33.21	0.00	34.20	1.41	11.08	0.00	30.41	0.00
Average	0		14.83	21.63	14.33	27.31	1.64	6.81	0.00	17.31	80.41
St. Dev.			13.47	14.58	24.24	26.30	0.32	5.91	0.00	21.64	137.01
% RSD			141	76	141	141	19	86	NONE/NH	141	141
Mdn			0.00	10.04	0.00	0.00	1.41	2.07	0.00	0.00	0.00
Max			19.08	33.21	20.43	34.20	1.41	11.08	0.00	30.41	179.40
n	4	2	2	2	2	2	2	2	2	2	2
4/21/P2-2.1-A	2										
4/21/P2-2.1-B	2		20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
Average	2		20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
St. Dev.			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
% RSD			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
Mdn			20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
Max			20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
n	2	1	1	1	1	1	1	1	1	1	1
4/21/P2-2.1-A	2										
4/21/P2-2.1-B	2										
Average	2		NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
St. Dev.			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
% RSD			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
Mdn			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	2	0	0	0	0	0	0	0	0	0	0
Average	2		20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
St. Dev.			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
% RSD			NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH	NONE/NH
Mdn			20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
Max			20.30	10.13	24.07	0.00	12.99	13.14	5.00	13.11	35.20
n	4	1	1	1	1	1	1	1	1	1	1
4/21/P2-3.1-A	3		20.31	5.61	17.17	0.00	9.30	2.04	1.47	13.15	0.00
4/21/P2-3.1-B	3		33.02	9.54	14.33	0.00	15.31	7.47	3.05	25.08	13.23
Average	3		24.77	7.70	27.78	0.00	14.78	5.16	3.26	19.14	7.43
St. Dev.			22.99	2.70	14.06	0.00	7.30	2.37	1.13	6.41	10.77
% RSD			93	37	54	NONE/NH	50	64	40	44	141
Mdn			20.31	5.61	17.17	0.00	9.30	2.04	1.47	13.15	0.00
Max			33.02	9.54	14.33	0.00	15.31	7.47	3.05	25.08	13.23
n	2	2	2	2	2	2	2	2	2	2	2
4/21/P2-3.2-A	3		23.09	5.90	17.70	1.00	10.64	3.44	2.01	13.11	61.35
4/21/P2-3.2-B	3		20.18	15.31	20.46						

Appendix 4: PR PES

PER TEST	Bytest/m-2	CS184, ng/g	CS204, ng/g	CS205, ng/g	CS206, ng/g	ECB, ng/g	HEPT, ng/g	ALDRIN, ng/g	OPDDE, ng/g	DECELMIN, ng/g
4/27/93-0.0	0	4.87	0.00	0.00	430.31	1464.21	0.00	0.00	0.00	0.00
4/28/93-0.3	0					4.65	6.69	85.51	26.32	0.00
4/28/93-0.9	0					2.79	7.76	282.01	0.00	0.00
4/28/93-0.0	0	1.35	0.00	37.80	1479.22	153.16	0.00	0.00	0.00	0.00
Average	0	2.09	0.00	18.96	949.79	418.86	3.43	86.88	6.96	0.00
St. Dev.		3.38	0.00	26.79	746.79	704.46	2.96	123.82	13.12	1.04
% RSD		77	0.00	141	79	169	116	142	208	200
Min		1.35	0.00	0.00	430.31	2.79	0.00	0.00	0.00	0.00
Max		4.47	0.00	37.80	1479.22	1464.21	7.48	262.01	26.32	0.00
n	4	2	2	2	2	4	4	4	4	4
4/27/93-1.1-A	2					97.37	0.00	434.89	577.53	317.06
4/28/93-1.1-B	2	11.63	0.00	0.00	204.06	0.00	1.23	0.00	0.00	0.00
Average	2	11.63	0.00	0.00	204.06	0.00	0.61	217.44	288.76	158.08
St. Dev.		0.00	0.00	0.00	0.00	0.00	0.87	307.51	466.37	234.76
% RSD		0.00	0.00	0.00	0.00	0.00	141	141	141	141
Min		11.63	0.00	0.00	204.06	0.00	0.00	0.00	0.00	0.00
Max		11.63	0.00	0.00	204.06	0.00	1.23	434.89	577.53	317.06
n	2	1	0	0	1	2	2	2	2	2
4/27/93-1.3-A	2					1.50	0.00	17.54	3.92	10.40
4/27/93-1.3-B	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	2	0.00	0.00	0.00	0.00	0.75	0.00	6.94	1.96	5.20
St. Dev.		0.00	0.00	0.00	0.00	1.50	0.00	9.88	2.77	7.36
% RSD		0.00	0.00	0.00	0.00	141	0.00	141	141	141
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max		0.00	0.00	0.00	0.00	1.50	0.00	13.06	3.92	10.40
n	2	0	0	0	0	2	2	2	2	2
Average	2	11.63	0.00	0.00	204.06	24.77	0.31	112.14	146.26	82.07
St. Dev.		0.00	0.00	0.00	0.00	0.00	0.00	25.123	288.11	157.27
% RSD		0.00	0.00	0.00	0.00	0.00	0.00	198	198	198
Min		11.63	0.00	0.00	204.06	0.00	0.00	0.00	0.00	0.00
Max		11.63	0.00	0.00	204.06	24.77	1.23	434.89	577.53	317.06
n	4	1	0	0	1	4	4	4	4	4
4/28/93-1.1-A	3	1.84	3.56	10.40	127.90	0.00	0.00	0.00	3.78	1.00
4/28/93-1.1-B	3	9.13	23.23	370.68	370.68	0.57	0.00	0.00	0.00	7.73
Average	3	6.60	8.80	16.84	248.80	0.29	0.00	0.00	2.08	4.71
St. Dev.		1.74	7.67	9.01	171.33	0.40	0.00	0.00	4.16	4.38
% RSD		26	86	53	68	141	0.00	0.00	141	91
Min		1.84	3.56	10.40	127.90	0.00	0.00	0.00	0.00	1.00
Max		9.13	23.23	370.68	370.68	0.57	0.00	0.00	4.16	7.73
n	2	3	3	3	3	3	3	3	3	3
4/28/93-1.3-A	3	1.44	7.16	12.86	234.87	0.51	0.73	2.13	0.00	2.76
4/28/93-1.3-B	3	9.81	19.64	22.12	319.28	0.20	3.03	0.00	0.00	2.83
Average	3	7.70	13.38	17.40	272.61	4.81	1.89	1.89	2.48	2.89
St. Dev.		3.13	8.80	6.68	64.77	5.44	1.65	1.65	4.86	0.80
% RSD		40	66	38	23	113	88	141	141	27
Min		1.44	7.16	12.86	234.87	0.51	0.73	0.00	0.00	2.76
Max		9.81	19.64	22.12	319.28	0.80	3.03	2.13	6.91	2.89
n	2	3	3	3	3	3	3	3	3	3
Average	3	7.80	13.16	17.17	260.83	2.40	0.94	0.00	3.30	3.66
St. Dev.		2.90	7.30	6.44	164.04	4.46	1.43	1.07	3.72	2.76
% RSD		37	56	37	62	179	151	200	116	74
Min		3.85	3.86	10.40	127.90	0.00	0.00	0.00	1.08	1.00
Max		9.70	19.46	23.23	370.68	0.80	3.03	2.73	6.91	7.73
n	4	4	4	4	4	4	4	4	4	4
4/28/93-1.1-A	4	2.26	1.81	5.74	102.06	0.06	0.35	0.00	4.51	1.00
4/28/93-1.1-B	4	6.84	14.16	14.16	203.30	0.70	0.00	0.00	2.83	4.70
Average	4	4.85	8.00	9.00	163.00	0.30	0.00	0.00	7.17	2.50
St. Dev.		3.24	5.00	5.00	87.10	0.40	0.00	0.00	3.76	2.54
% RSD		71	60	55	53	119	0.00	0.00	52	87
Min		2.26	1.81	5.74	102.06	0.06	0.35	0.00	4.51	1.00
Max		6.84	14.16	14.16	203.30	0.70	0.00	0.00	7.17	4.70
n	2	3	3	3	3	3	3	3	3	3
4/28/93-1.3-A	4	9.80	17.09	22.51	461.86	0.73	0.00	0.00	5.79	4.44
4/28/93-1.3-B	4	4.15	4.42	7.28	114.08	0.14	0.43	2.00	0.00	1.76
Average	4	6.97	10.76	14.89	208.08	0.44	3.09	1.98	3.10	2.10
St. Dev.		4.00	6.84	10.77	263.88	0.43	4.08	1.41	4.40	1.90
% RSD		57	63	72	126	94	130	141	141	88
Min		4.15	4.42	7.28	114.08	0.14	0.43	0.00	0.00	1.76
Max		9.80	17.09	22.51	461.86	0.73	0.00	2.00	5.79	4.44
n	2	3	3	3	3	3	3	3	3	3
Average	4	5.76	8.20	13.43	320.97	0.40	2.36	0.00	5.81	3.15
St. Dev.		3.09	6.76	7.46	178.14	0.36	3.31	1.30	4.06	1.66
% RSD		53	81	55	55	88	141	200	68	53
Min		2.56	1.81	5.74	102.06	0.06	0.35	0.00	0.00	1.00
Max		9.80	17.09	22.51	461.86	0.73	0.00	2.00	5.81	4.44
n	4	4	4	4	4	4	4	4	4	4
4/30/93-1.1-A	3	9.30	13.46	22.28	209.99	2.87	1.74	3.05	3.39	2.32
4/30/93-1.1-B	3	3.86	8.76	12.12	203.56	0.70	0.00	0.00	1.72	4.75
Average	3	7.32	12.11	17.20	207.78	1.78	1.36	0.00	2.68	3.66
St. Dev.		3.30	4.74	7.18	59.78	1.33	0.84	0.00	0.47	1.75
% RSD		44	39	41	28	74	62	0.00	17	47
Min		3.86	8.76	12.12	203.56	0.70	0.00	0.00	1.72	2.32
Max		9.30	13.46	22.28	209.99	2.87	1.74	0.00	3.39	4.75
n	2	3	3	3	3	3	3	3	3	3
4/30/93-1.3-A	3	5.42	9.20	11.80	226.82	0.57	0.00	0.00	9.85	5.48
4/30/93-1.3-B	3	5.25	9.16	11.64	226.82	0.64	0.73	0.00	10.07	5.15
Average	3	5.34	9.18	11.87	226.78	0.61	0.39	0.00	10.36	5.32
St. Dev.		0.12	0.00	1.38	0.85	0.00	0.83	0.00	4.93	0.33
% RSD		2	0	11	0	0	141	0.00	47	6
Min		5.25	9.16	11.80	226.82	0.57	0.00	0.00	9.85	5.15
Max		5.42	9.20	11.64	226.82	0.64	0.73	0.00	10.07	5.48
n	2	3	3	3	3	3	3	3	3	3
Average	3	6.33	10.42	14.93	208.36	1.19	0.86	0.00	6.16	4.43
St. Dev.		2.17	3.21	4.97	34.18	1.13	0.73	0.00	4.76	1.44
% RSD		34	30	33	16	93	83	0.00	77	32
Min		5.46	8.76	11.80	208.36	0.87	0.00	0.00	1.72	2.32
Max		9.99	15.41	17.20	208.36	2.87	1.7	0.00	10.47	5.48
n	4	4	4	4	4	4	4	4	4	4

Appendix 4: PR PES

FBP PHS	Dynamis [®] 2	CS184, ng/l	CS184, ng/l	CS174, ng/l	CS184, ng/l	CS264, ng/l	CS264, ng/l	CS 184, ng/l	HC2, ng/l	HCPT, ng/l	ALB/DIN, ng/l
4/27/92-4.8	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.9284	0.0000	0.0000
4/28/92-4.8	0	0.0000	0.0000	4.8497	0.1277	0.0000	0.0000	11.3434	0.1136	0.1306	2.3088
4/29/92-4.8	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0921	0.2330	2.4463
4/30/92-4.8	0	0.0000	1.3713	0.0000	0.0000	1.0873	0.62711	8.6087	0.0000	0.0000	0.0000
Average	0	0.00	0.34	1.21	0.08	0.00	0.43	19.48	2.94	0.30	2.74
St. Dev.	0.00	0.00	0.00	2.43	0.04	0.00	0.85	31.70	4.01	0.13	4.00
% RSD	0.00	0.00	0.00	1.98	0.00	0.00	0.00	1.63	1.94	1.17	1.40
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max	0.00	1.37	4.85	0.13	0.00	1.70	66.37	61.0	0.33	0.00	0.00
n	4	4	4	4	4	4	4	4	4	4	4
4/27/92-2.1-A	2	1.1645	2.9085	6.9085	2.3012	0.0000	0.0000	35.4835	0.0000	0.0000	89.6115
4/28/92-2.1-B	2	1.1645	2.9085	6.9085	2.3012	0.0000	0.0000	35.4835	0.0000	0.0000	89.6115
Average	2	1.16	2.90	6.90	2.30	0.00	0.00	35.48	0.00	0.00	89.61
St. Dev.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.33	0.17	0.00	0.00
% RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.01	1.01	1.01
Min	1.16	2.90	6.90	2.30	0.00	0.00	0.00	35.48	0.00	0.00	0.00
Max	1.16	2.90	6.90	2.30	0.00	0.00	0.00	35.48	0.17	0.00	89.61
n	2	2	2	2	2	2	2	2	2	2	2
4/27/92-2.2-A	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.9703
4/28/92-2.2-B	2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.9703
Average	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
St. Dev.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30
% RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.77
n	2	2	2	2	2	2	2	2	2	2	2
Average	2	0.00	0.00	0.00	0.00	0.00	0.00	19.36	5.11	0.00	23.15
St. Dev.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.06	10.00	0.13	64.33
% RSD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.77
Min	1.16	2.90	6.90	2.30	0.00	0.00	0.00	35.48	0.17	0.00	89.61
Max	1.16	2.90	6.90	2.30	0.00	0.00	0.00	35.48	0.17	0.00	89.61
n	4	4	4	4	4	4	4	4	4	4	4
4/28/92-3.1-A	3	1.0613	9.8784	0.0000	2.8262	2.6302	7.7706	94.1344	0.0000	0.0000	0.0000
4/29/92-3.1-B	3	2.6304	23.2464	14.1304	8.4726	13.3725	21.3374	343.4064	0.2200	0.0000	0.0000
Average	3	1.06</									

APPENDIX 5. ROCKY POINT PES DATA (RP PES)

Appendix 3: RFP PLE

A 15.3

Appendix 5: RP P13

RP P13	Dose, mg	BAF, mg/l	PER, mg/l	INT, mg/l	DBA, mg/l	STC, mg/l	Σ PAHs, mg/l
4/20/93-0.0	0.00	10.44	0.00	0.00	0.00	0.00	74.25
4/22/93-0.0	0.00	24.14	3.51	0.00	0.00	0.00	106.44
4/23/93-0.0	0.00	6.04	24.85	0.00	0.00	0.00	208.13
4/24/93-0.0	0.00	147.95	143.82	0.00	0.00	51.72	3,773.07
AVERAGE		47.34	43.88	0.00	0.00	12.85	1,848.48
STD. DEV		67.48	57.71	0.00	0.00	26.84	1,822.63
% RSD		1.43	1.56	NDV/N	NDV/N	2.00	1.75
MIN		6.04	0.00	0.00	0.00	0.00	74.25
MAX		147.95	143.82	0.00	0.00	51.72	3,773.07
"		4.00	4.00	4.00	4.00	4.00	4.00
4/20/93-2.1-A	2.00	153.56	39.21	89.87	0.00	219.13	2,852.27
4/20/93-2.1-B	2.00	276.22	74.39	136.35	0.00	89.12	2,878.30
AVERAGE		215.89	66.89	114.61	0.00	149.63	2,765.26
STD. DEV		86.31	11.83	36.37	0.00	95.39	173.97
% RSD		0.49	0.17	0.31	NDV/N	0.64	0.66
MIN		153.56	39.21	89.87	0.00	89.12	2,632.27
MAX		276.22	74.39	136.35	0.00	219.13	2,878.30
"		2.00	2.00	2.00	2.00	2.00	2.00
4/20/93-2.3-A	2.00	126.97	119.82	195.91	0.00	266.90	3,649.12
4/20/93-2.3-B	2.00	150.07	232.88	130.70	0.00	197.60	4,877.34
AVERAGE		138.52	176.35	163.31	0.00	232.25	4,163.23
STD. DEV		125.00	79.93	46.11	0.00	46.00	727.46
% RSD		0.92	0.45	0.28	NDV/N	0.21	0.17
MIN		138.52	119.82	130.70	0.00	197.60	3,649.12
MAX		150.07	232.88	195.91	0.00	266.90	4,877.34
"		2.00	2.00	2.00	2.00	2.00	2.00
AVERAGE		227.20	121.87	176.35	0.00	196.94	3,498.26
STD. DEV		86.39	76.84	43.79	0.00	79.36	908.26
% RSD		0.39	0.64	0.24	NDV/N	0.40	0.27
MIN		138.52	119.82	130.70	0.00	197.60	3,649.12
MAX		150.07	232.88	195.91	0.00	266.90	4,877.34
"		4.00	4.00	4.00	4.00	4.00	4.00
4/22/93-3.1-A	3.00	883.17	102.86	330.04	0.00	328.74	10,195.38
4/22/93-3.1-B	3.00	511.75	264.88	74.80	0.00	202.88	6,111.75
AVERAGE		897.46	183.77	302.42	0.00	266.36	8,153.66
STD. DEV		121.23	114.43	322.90	0.00	224.96	2,807.71
% RSD		0.30	0.63	1.06	NDV/N	0.83	0.29
MIN		511.75	102.86	74.80	0.00	202.88	6,111.75
MAX		883.17	264.88	330.04	0.00	328.74	10,195.38
"		2.00	2.00	2.00	2.00	2.00	2.00
4/22/93-3.3-A	3.00	0.00	0.00	0.00	0.00	0.00	10,720.43
4/22/93-3.3-B	3.00	450.80	2,274.12	0.00	0.00	0.00	10,145.93
AVERAGE		215.30	1,137.06	0.00	0.00	0.00	10,433.18
STD. DEV		304.44	1,408.05	0.00	0.00	0.00	896.23
% RSD		1.41	1.41	NDV/N	NDV/N	NDV/N	0.84
MIN		0.00	0.00	0.00	0.00	0.00	10,145.93
MAX		450.80	2,274.12	0.00	0.00	0.00	10,720.43
"		2.00	2.00	2.00	2.00	2.00	2.00
AVERAGE		464.36	604.82	191.21	0.00	183.18	9,283.42
STD. DEV		294.64	1,081.21	288.80	0.00	204.97	2,126.96
% RSD		0.73	1.64	1.50	NDV/N	1.37	0.23
MIN		0.00	0.00	0.00	0.00	0.00	6,111.75
MAX		883.17	2,274.12	330.04	0.00	328.74	10,720.43
"		4.00	4.00	4.00	4.00	4.00	4.00
4/23/93-4.1-A	4.00	1,324.83	679.84	999.14	0.07	1,133.48	17,044.33
4/23/93-4.1-B	4.00	1,182.80	543.08	998.13	37.88	1,178.18	17,618.30
AVERAGE		1,253.81	611.46	748.64	19.28	1,156.83	17,322.32
STD. DEV		188.43	96.71	382.84	24.32	31.01	288.78
% RSD		0.08	0.16	0.47	1.37	0.08	0.08
MIN		1,182.80	543.08	699.14	0.07	1,133.48	17,044.33
MAX		1,324.83	679.84	998.13	37.88	1,178.18	17,618.30
"		2.00	2.00	2.00	2.00	2.00	2.00
4/23/93-4.3-A	4.00	1,401.30	396.94	636.42	0.00	908.92	17,209.82
4/23/93-4.3-B	4.00	1,279.21	828.77	1,071.08	48.80	1,000.07	19,806.47
AVERAGE		1,340.26	612.36	853.75	24.40	954.49	18,507.74
STD. DEV		86.94	306.06	287.35	24.81	118.76	1,834.67
% RSD		0.06	0.50	0.34	1.41	0.12	0.10
MIN		1,279.21	396.94	636.42	0.00	908.92	17,209.82
MAX		1,401.30	828.77	1,071.08	48.80	1,000.07	19,806.47
"		2.00	2.00	2.00	2.00	2.00	2.00
AVERAGE		1,297.89	612.48	808.19	21.84	1,019.94	17,847.83
STD. DEV		91.35	186.33	276.49	26.23	173.21	1,391.26
% RSD		0.07	0.30	0.34	1.16	0.17	0.07
MIN		1,182.80	396.94	699.14	0.00	908.92	17,044.33
MAX		1,401.30	828.77	1,071.08	48.80	1,000.07	19,806.47
"		4.00	4.00	4.00	4.00	4.00	4.00
4/24/93-5.1-A	5.00	2,761.24	1,342.15	2,186.12	137.88	2,321.26	32,908.84
4/24/93-5.1-B	5.00	2,183.54	788.47	1,888.98	138.51	1,894.14	28,421.43
AVERAGE		2,472.39	1,068.21	1,937.55	136.20	2,108.70	30,665.63
STD. DEV		468.89	411.38	381.83	144.87	308.68	3,211.97
% RSD		0.17	0.39	0.19	0.60	0.14	0.10
MIN		2,183.54	788.47	1,698.98	137.88	1,894.14	28,421.43
MAX		2,761.24	1,342.15	2,186.12	138.51	2,321.26	32,908.84
"		2.00	2.00	2.00	2.00	2.00	2.00
4/24/93-5.3-A	5.00	2,282.70	1,112.67	2,079.45	0.00	2,407.47	32,033.52
4/24/93-5.3-B	5.00	2,734.76	0.00	0.00	4,619.66	4,143.10	44,310.73
AVERAGE		2,508.73	586.38	1,839.73	2,309.83	3,276.28	38,182.13
STD. DEV		315.66	786.78	1,476.29	2,264.60	1,328.48	8,467.16
% RSD		0.12	1.41	1.41	1.41	0.38	0.22
MIN		2,282.70	0.00	0.00	0.00	2,407.47	32,033.52
MAX		2,734.76	1,112.67	2,079.45	4,619.66	4,143.10	44,310.73
"		2.00	2.00	2.00	2.00	2.00	2.00
AVERAGE		2,499.56	883.82	1,488.64	1,274.82	2,692.40	34,497.28
STD. DEV		396.21	986.88	1,915.17	2,234.76	993.86	8,968.90
% RSD		0.15	0.73	0.68	1.75	1.37	0.26
MIN		2,183.54	0.00	0.00	0.00	1,894.14	28,421.43
MAX		2,761.24	1,342.15	2,186.12	4,619.66	4,143.10	44,310.73
"		4.00	4.00	4.00	4.00	4.00	4.00

APPENDIX 6. BULK SEDIMENT AND SIZED FRACTION DATA

Appendix 6: Bulk/Particles

	Amt filtered, g	CB008, ng/g	CB018, ng/g	CB029, ng/g	CB050, ng/g
BRH PES2 Pip	1.535	0.14	0.02	0.00	0.60
BRH PES1 PIP	2.622	0.20	0.23	0.07	1.40
AVERAGE	2.079	0.174	0.126	0.035	1.001
ST. DEV.	0.769	0.041	0.154	0.050	0.568
%RSD	36.994	23.818	122.722	141.421	56.697
MIN	1.535	0.144	0.017	0.000	0.600
MAX	2.622	0.203	0.235	0.071	1.403
n	2	2	2	2	2
BRH PES1 CORE	2.634	1.01	1.27	0.45	7.73
BRH PES2 CORE	1.560	1.30	1.93	0.53	11.12
BRH PES#2 CORE	5.130	2.31	2.54	0.74	0.42
BRH #3 BULK CORE	1.870	2.3	5.4	0.5	0.0
BRH #1-4 CORE	1.490	4.13	5.35	1.08	0.00
AVERAGE	2.537	2.208	3.287	0.651	3.856
ST. DEV.	1.519	1.221	1.935	0.265	5.229
%RSD	59.878	55.282	58.870	40.702	135.623
MIN	1.490	1.011	1.269	0.450	0.000
MAX	5.130	4.130	5.353	1.079	11.125
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater		NA			
BRH CLAY1	0.1192	0.37	2.46	0.10	0.56
BRH CLAY2	0.0804	0.56	2.96	0.00	0.00
BRH SILT1	2.0000	1.21	1.65	0.26	0.04
BRH SILT2	1.4772	1.00	1.50	0.20	0.00
BRH SAND					
		CB008, %	CB018, %	CB029, %	CB050, %
BRH CLAY1		0.06	0.40	0.02	0.09
BRH CLAY2		0.11	0.57	0.00	0.00
BRH SILT1		0.45	0.61	0.09	0.02
BRH SILT2		0.45	0.67	0.09	0.00
BRH SAND		not determined	not determined	not determined	not determined

Appendix 6: Bulk/Particles

	CB028, ng/g	CB052, ng/g	CB104, ng/g	CB044, ng/g	CB066, ng/g
BRH PES2 Pip	0.58	0.29	0.83	0.44	0.36
BRH PES1 PIP	1.45	1.06	0.00	0.51	1.16
AVERAGE	1.015	0.675	0.415	0.474	0.763
ST. DEV.	0.621	0.549	0.587	0.054	0.563
%RSD	61.226	81.341	141.421	11.436	73.890
MIN	0.576	0.287	0.000	0.435	0.364
MAX	1.454	1.063	0.830	0.512	1.161
n	2	2	2	2	2
BRH PES1 CORE	8.18	5.62	0.74	2.78	5.05
BRH PES2 CORE	11.76	8.41	0.66	3.67	6.71
BRH PES#2 CORE	52.03	28.48	0.00	11.00	54.39
BRH #3 BULK CORE	56.2	32.4	0.2	12.2	62.7
BRH #1-4 CORE	56.75	33.31	0.00	11.31	56.73
AVERAGE	36.992	21.643	0.325	8.184	37.120
ST. DEV.	24.768	13.513	0.354	4.560	28.681
%RSD	66.955	62.437	109.026	55.720	77.266
MIN	8.179	5.616	0.000	2.776	5.053
MAX	56.746	33.312	0.737	12.163	62.705
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater					
BRH CLAY1	47.65	33.62	0.00	11.85	56.77
BRH CLAY2	43.42	28.39	26.12	9.76	45.43
BRH SILT1	26.13	14.92	1.19	6.99	27.36
BRH SILT2	22.59	14.18	1.55	6.14	25.02
BRH SAND					
	CB028, %	CB052, %	CB104, %	CB044, %	CB066, %
BRH CLAY1	7.82	5.52	0.00	1.94	9.31
BRH CLAY2	8.31	5.44	5.00	1.87	8.70
BRH SILT1	9.67	5.52	0.44	2.59	10.12
BRH SILT2	10.07	6.32	0.69	2.74	11.16
BRH SAND	not determined	not determined	not determined	not determined	not determined

Appendix 6: Bulk/Particles

	CB101, ng/g	CB087, ng/g	CB077, ng/g	CB154, ng/g	CB118, ng/g
BRH PES2 Pip	1.27	0.72	0.10	0.51	1.46
BRH PES1 PIP	1.96	0.86	0.16	1.18	2.69
AVERAGE	1.613	0.790	0.132	0.842	2.076
ST. DEV.	0.486	0.099	0.044	0.475	0.869
%RSD	30.110	12.527	33.169	56.377	41.860
MIN	1.270	0.720	0.101	0.506	1.461
MAX	1.957	0.860	0.163	1.177	2.690
n	2	2	2	2	2
BRH PES1 CORE	9.74	4.50	1.04	6.06	15.10
BRH PES2 CORE	14.61	6.54	1.65	8.71	21.07
BRH PES#2 CORE	2.17	24.40	46.95	2.43	57.50
BRH #3 BULK CORE	66.8	27.4	53.9	4.2	66.9
BRH #1-4 CORE	64.68	26.18	48.77	3.11	63.56
AVERAGE	31.595	17.806	30.463	4.895	44.825
ST. DEV.	31.485	11.288	26.703	2.538	24.735
%RSD	99.651	63.394	87.656	51.844	55.180
MIN	2.168	4.503	1.040	2.426	15.095
MAX	66.784	27.410	53.901	8.714	66.903
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater					
BRH CLAY1	67.62	26.61	50.22	3.63	64.31
BRH CLAY2	59.06	22.69	40.44	2.68	60.42
BRH SILT1	28.86	13.81	25.35	1.77	28.92
BRH SILT2	25.82	1.05	21.88	1.63	25.17
BRH SAND					
	CB101, %	CB087, %	CB077, %	CB154, %	CB118, %
BRH CLAY1	11.09	4.37	8.24	0.60	10.55
BRH CLAY2	11.31	4.35	7.75	0.51	11.57
BRH SILT1	10.68	5.11	9.38	0.65	10.70
BRH SILT2	11.51	0.47	9.76	0.73	11.22
BRH SAND	not determined	not determined	not determined	not determined	not determined

Appendix 6: Bulk/Particles

	CB188, ng/g	CB153, ng/g	CB105, ng/g	CB138, ng/g	CB126, ng/g
BRH PES2 Pip	0.25	0.96	0.61	0.73	0.00
BRH PES1 PIP	0.32	1.53	1.16	1.91	0.16
AVERAGE	0.285	1.245	0.883	1.322	0.082
ST. DEV.	0.050	0.399	0.391	0.836	0.115
%RSD	17.380	32.052	44.270	63.217	141.421
MIN	0.250	0.963	0.606	0.731	0.000
MAX	0.320	1.528	1.159	1.913	0.163
n	2	2	2	2	2
BRH PES1 CORE	1.66	8.32	6.24	10.57	1.03
BRH PES2 CORE	2.37	12.36	8.48	15.35	1.27
BRH PES#2 CORE	0.66	53.47	32.68	16.89	0.71
BRH #3 BULK CORE	1.3	80.2	19.6	72.5	0.7
BRH #1-4 CORE	0.00	75.19	17.97	67.08	0.00
AVERAGE	1.198	45.914	17.000	36.485	0.734
ST. DEV.	0.911	34.022	10.513	30.569	0.480
%RSD	75.993	74.099	61.839	83.786	65.427
MIN	0.000	8.323	6.243	10.569	0.000
MAX	2.369	80.219	32.684	72.533	1.274
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater					
BRH CLAY1	2.18	75.13	20.88	66.20	0.00
BRH CLAY2	3.14	62.25	18.88	15.81	0.00
BRH SILT1	0.50	25.54	19.25	9.56	0.20
BRH SILT2	0.33	29.73	8.17	7.36	0.00
BRH SAND					
	CB188, %	CB153, %	CB105, %	CB138, %	CB126, %
BRH CLAY1	0.36	12.32	3.43	10.86	0.00
BRH CLAY2	0.60	11.92	3.62	3.03	0.00
BRH SILT1	0.18	9.45	7.12	3.54	0.08
BRH SILT2	0.15	13.26	3.64	3.28	0.00
BRH SAND	not determined	not determined	not determined	not determined	not determined

Appendix 6: Bulk/Particles

	CB187, ng/g	CB128, ng/g	CB200, ng/g	CB180, ng/g	CB170, ng/g
BRH PES2 Pip	0.32	0.19	0.00	0.38	0.04
BRH PES1 PIP	0.41	0.35	0.00	0.66	0.20
AVERAGE	0.363	0.270	0.000	0.523	0.120
ST. DEV.	0.061	0.109	0.000	0.197	0.117
%RSD	16.712	40.126	#DIV/0!	37.636	97.293
MIN	0.320	0.194	0.000	0.384	0.038
MAX	0.406	0.347	0.000	0.662	0.203
n	2	2	2	2	2
BRH PES1 CORE	2.47	2.15	0.78	3.63	1.93
BRH PES2 CORE	3.22	2.65	0.84	5.19	2.85
BRH PES#2 CORE	13.22	9.35	1.13	23.57	10.92
BRH #3 BULK CORE	15.7	11.1	2.3	26.7	17.5
BRH #1-4 CORE	14.86	10.05	1.48	24.97	47.93
AVERAGE	9.901	7.066	1.316	16.803	16.234
ST. DEV.	6.510	4.309	0.639	11.381	18.832
%RSD	65.758	60.985	48.521	67.734	116.007
MIN	2.473	2.153	0.780	3.627	1.930
MAX	15.741	11.129	2.345	26.656	47.935
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater					
BRH CLAY1	15.47	11.30	1.91	24.69	8.76
BRH CLAY2	12.00	10.11	1.96	22.59	15.03
BRH SILT1	7.17	5.61	0.70	11.98	4.52
BRH SILT2	5.99	4.64	0.69	9.77	4.51
BRH SAND					
	CB187, %	CB128, %	CB200, %	CB180, %	CB170, %
BRH CLAY1	2.54	1.85	0.31	4.05	1.44
BRH CLAY2	2.30	1.94	0.38	4.33	2.88
BRH SILT1	2.65	2.07	0.26	4.44	1.67
BRH SILT2	2.67	2.07	0.31	4.36	2.01
BRH SAND	not determined	not determined	not determined	not determined	not determined

Appendix 6: Bulk/Particles

	CB195, ng/g	CB206, ng/g	CB209, ng/g	CB sum, ng/g	HCb, ng/g
BRH PES2 Pip	0.18	0.88	1.23	13.09	0.25
BRH PES1 PIP	0.15	0.33	0.16	20.29	0.10
AVERAGE	0.168	0.602	0.696	16.688	0.177
ST. DEV.	0.021	0.388	0.755	5.094	0.107
%RSD	12.654	64.505	108.536	30.527	60.116
MIN	0.153	0.327	0.162	13.086	0.102
MAX	0.183	0.877	1.230	20.291	0.253
n	2	2	2	2	2
BRH PES1 CORE	0.80	0.97	0.87	110.69	0.82
BRH PES2 CORE	1.06	1.46	0.84	156.64	0.79
BRH PES#2 CORE	1.60	5.21	2.27	457.03	2.02
BRH #3 BULK CORE	1.6	6.6	2.8	649.8	1.8
BRH #1-4 CORE	2.09	6.46	3.07	646.13	2.76
AVERAGE	1.437	4.149	1.977	404.067	1.645
ST. DEV.	0.510	2.737	1.063	259.369	0.839
%RSD	35.479	65.970	53.781	64.190	50.990
MIN	0.800	0.974	0.842	110.693	0.794
MAX	2.095	6.636	3.071	649.835	2.757
n	5	5	5	5	5
BRH Jar4 0.5cm filtered swater				0.00	
BRH CLAY1	3.87	9.23	4.19	609.56	4.99
BRH CLAY2	7.98	4.22	6.27	522.15	0.72
BRH SILT1	1.80	3.51	1.42	270.21	1.11
BRH SILT2	1.42	2.81	1.10	224.26	0.71
BRH SAND					
	CB195, %	CB206, %	CB209, %	CB sum, %	
BRH CLAY1	0.64	1.51	0.69	100.00	
BRH CLAY2	1.53	0.81	1.20	100.00	
BRH SILT1	0.66	1.30	0.52	100.00	
BRH SILT2	0.63	1.25	0.49	100.00	
BRH SAND	not determined	not determined	not determined	not determined	

Appendix 6: Bulk/Particles

	HEPT, ng/g	ALDRIN, ng/g	OP'DDE, ng/g	DIELDRIN, ng/g
BRH PES2 Pip	0.00	0.00	0.00	0.23
BRH PES1 PIP	0.00	0.00	0.50	0.27
AVERAGE	0.000	0.000	0.252	0.248
ST. DEV.	0.000	0.000	0.357	0.028
%RSD	#DIV/0!	#DIV/0!	141.421	11.144
MIN	0.000	0.000	0.000	0.229
MAX	0.000	0.000	0.504	0.268
n	2	2	2	2
BRH PES1 CORE	0.85	0.00	2.46	1.38
BRH PES2 CORE	2.28	0.00	3.30	2.00
BRH PES#2 CORE	0.00	1.10	23.84	16.10
BRH #3 BULK CORE	0.0	2.8	28.6	18.3
BRH #1-4 CORE	0.00	4.67	26.33	17.05
AVERAGE	0.626	1.708	16.902	10.973
ST. DEV.	0.996	2.007	12.910	8.516
%RSD	158.930	117.496	76.379	77.605
MIN	0.000	0.000	2.463	1.376
MAX	2.281	4.672	28.575	18.336
n	5	5	5	5
BRH Jar4 0.5cm filtered water				
BRH CLAY1	1.82	0.00	29.43	18.26
BRH CLAY2	0.00	0.00	28.41	16.60
BRH SILT1	0.00	0.00	14.31	0.00
BRH SILT2	0.65	5.52	11.63	20.70
BRH SAND				
BRH CLAY1				
BRH CLAY2				
BRH SILT1				
BRH SILT2				
BRH SAND				

Appendix 6: Bulk/Particles

	PP'DDE, ng/g	OP'DDD, ng/g	PP'DDD, ng/g	OP'DDT, ng/g
BRH PES2 Pip	1.12	0.31	0.14	0.15
BRH PES1 PIP	1.02	0.73	0.25	0.11
AVERAGE	1.070	0.523	0.195	0.132
ST. DEV.	0.070	0.295	0.082	0.026
%RSD	6.577	56.377	41.810	19.841
MIN	1.020	0.314	0.138	0.113
MAX	1.120	0.731	0.253	0.150
n	2	2	2	2
BRH PES1 CORE	5.27	3.76	1.87	0.73
BRH PES2 CORE	7.24	5.41	1.95	0.43
BRH PES#2 CORE	13.17	0.00	0.00	0.00
BRH #3 BULK CORE	16.4	0.0	0.0	0.0
BRH #1-4 CORE	14.51	0.00	0.00	0.00
AVERAGE	11.319	1.835	0.763	0.232
ST. DEV.	4.813	2.580	1.045	0.335
%RSD	42.527	140.557	136.982	144.521
MIN	5.270	0.000	0.000	0.000
MAX	16.405	5.411	1.948	0.732
n	5	5	5	5
BRH Jar4 0.5cm filtered swater				
BRH CLAY1	17.61	0.00	0.00	0.00
BRH CLAY2	15.01	0.00	0.00	0.00
BRH SILT1	9.21	0.00	0.00	0.00
BRH SILT2	5.56	0.00	0.00	0.00
BRH SAND				
BRH CLAY1				
BRH CLAY2				
BRH SILT1				
BRH SILT2				
BRH SAND				

Appendix 6: Bulk/Particles

	MIREX, ng/g	NAP, ng/g	2MN, ng/g	1MN, ng/g	BIP, ng/g	DMN, ng/g
BRH PES2 Pip	0.16	609.3	168.5	303.4	0.0	0.0
BRH PES1 PIP	0.04	9.6	4.8	1.9	4.7	7.3
AVERAGE	0.101	309.465	86.647	152.674	2.345	3.650
ST. DEV.	0.087	424.030	115.819	213.212	3.316	5.162
%RSD	86.849	137.021	133.669	139.652	141.421	141.421
MIN	0.039	9.630	4.750	1.910	0.000	0.000
MAX	0.162	609.299	168.543	303.437	4.690	7.300
n	2	2	2	2	2	2
BRH PES1 CORE	0.42	115.5	474.0	334.1	468.5	894.4
BRH PES2 CORE	0.30	LOST	LOST	LOST	LOST	LOST
BRH PES#2 CORE	0.53	335.9	202.8	131.7	55.8	222.1
BRH #3 BULK CORE	1.4	401.9	276.4	163.2	71.8	237.9
BRH #1-4 CORE	10.22	406.1	297.6	175.9	78.7	338.5
AVERAGE	2.570	314.836	312.704	201.195	168.714	423.200
ST. DEV.	4.298	136.718	114.931	90.497	200.065	318.326
%RSD	167.248	43.425	36.754	44.980	118.582	75.219
MIN	0.301	115.505	202.840	131.680	55.820	222.100
MAX	10.220	406.060	473.978	334.050	468.466	894.389
n	5	4	4	4	4	4
BRH Jar4 0.5cm filtered swater						
BRH CLAY1	9.75	211.21	0	0	0	102.04
BRH CLAY2	12.95	152.81	0	0	0	181.1
BRH SILT1	0.95					
BRH SILT2	0.76	134.25	78.5	45.8	24.56	73.23
BRH SAND						
		NAP, %	2MN, %	1MN, %	BIP, %	DMN, %
BRH CLAY1		1.42	0.00	0.00	0.00	0.53
BRH CLAY2		0.86	0.00	0.00	0.00	1.02
BRH SILT1						
BRH SILT2		1.35	0.79	0.46	0.25	0.73
BRH SAND						

Appendix 6: Bulk/Particles

	ACL, ng/g	ACT, ng/g	TMN, ng/g	FLU, ng/g	PHE, ng/g	ANT, ng/g
BRH PES2 Pip	0.0	0.0	553.4	0.0	10.8	0.8
BRH PES1 PIP	0.0	0.0	0.0	4.1	29.3	8.3
AVERAGE	0.000	0.000	276.722	2.065	20.084	4.542
ST. DEV.	0.000	0.000	391.344	2.920	13.062	5.273
%RSD	#DIV/0!	#DIV/0!	141.421	141.421	65.034	116.091
MIN	0.000	0.000	0.000	0.000	10.848	0.813
MAX	0.000	0.000	553.444	4.130	29.320	8.270
n	2	2	2	2	2	2
BRH PES1 CORE	11.3	9.8	28.0	46.9	376.9	54.7
BRH PES2 CORE	LOST	LOST	LOST	LOST	LOST	LOST
BRH PES#2 CORE	74.2	152.9	175.7	189.6	1050.2	273.0
BRH #3 BULK CORE	135.0	293.3	278.5	340.8	1474.8	397.4
BRH #1-4 CORE	123.2	237.0	253.9	290.2	1153.7	316.4
AVERAGE	85.924	173.254	184.037	216.883	1013.883	260.368
ST. DEV.	56.273	123.322	112.852	129.569	461.537	146.507
%RSD	65.492	71.180	61.320	59.741	45.522	56.269
MIN	11.326	9.788	28.029	46.944	376.902	54.661
MAX	134.960	293.340	278.460	340.830	1474.810	397.420
n	4	4	4	4	4	4
BRH Jar4 0.5cm filtered swater						
BRH CLAY1	13.82	0	0	91.91	594.9	269.83
BRH CLAY2	0	0	0	22.74	576.58	239.2
BRH SILT1						
BRH SILT2	26.35	38.91	66.32	87.95	354.42	113.5
BRH SAND						
	ACL, %	ACT, %	TMN, %	FLU, %	PHE, %	ANT, %
BRH CLAY1	0.07	0.00	0.00	0.48	3.11	1.41
BRH CLAY2	0.00	0.00	0.00	0.13	3.23	1.34
BRH SILT1						
BRH SILT2	0.26	0.39	0.67	0.88	3.56	1.14
BRH SAND						

Appendix 6: Bulk/Particles

	1MP, ng/g	FLA, ng/g	PYR, ng/g	BAA, ng/g	CHR, ng/g	BBF, ng/g
BRH PES2 Pip	1.9	31.9	32.3	5.4	0.8	21.3
BRH PES1 PIP	6.7	71.3	68.6	27.6	40.9	39.6
AVERAGE	4.316	51.610	50.470	16.501	20.879	30.437
ST. DEV.	3.428	27.804	25.696	15.696	28.342	12.958
%RSD	79.427	53.873	50.914	95.118	135.740	42.574
MIN	1.892	31.949	32.300	5.403	0.839	21.274
MAX	6.740	71.270	68.640	27.600	40.920	39.600
n	2	2	2	2	2	2
BRH PES1 CORE	51.8	701.9	649.8	210.1	229.5	251.9
BRH PES2 CORE	LOST	LOST	LOST	LOST	LOST	LOST
BRH PES#2 CORE	199.7	2287.9	2244.1	683.8	1081.0	1073.3
BRH #3 BULK CORE	249.5	5800.4	5832.9	1252.1	1765.1	2365.3
BRH #1-4 CORE	155.6	4680.1	4190.1	1124.4	1449.4	730.9
AVERAGE	164.126	3367.556	3229.211	817.578	1131.252	1105.341
ST. DEV.	84.145	2303.110	2260.288	472.544	662.966	904.982
%RSD	51.269	68.391	69.995	57.798	58.605	81.874
MIN	51.773	701.873	649.756	210.054	229.528	251.923
MAX	249.450	5800.380	5832.920	1252.050	1765.080	2365.260
n	4	4	4	4	4	4
BRH Jar4 0.5cm filtered swater						
BRH CLAY1	248.29	3963.93	4369.37	907	1919.04	1242.99
BRH CLAY2	155.82	3918.93	4056.16	830.22	1569.83	939.84
BRH SILT1						
BRH SILT2	87.86	2094.91	2063.86	496.77	823.53	386.83
BRH SAND						
	1MP, %	FLA, %	PYR, %	BAA, %	CHR, %	BBF, %
BRH CLAY1	1.30	20.70	22.82	4.74	10.02	6.49
BRH CLAY2	0.87	21.97	22.74	4.65	8.80	5.27
BRH SILT1						
BRH SILT2	0.88	21.02	20.71	4.98	8.26	3.88
BRH SAND						

Appendix 6: Bulk/Particles

	BKF, ng/g	BEP, ng/g	BAP, ng/g	PER, ng/g	INP, ng/g	DBA, ng/g
BRH PES2 Pip	23.4	28.6	9.2	2.0	0.0	8.6
BRH PES1 PIP	25.3	31.0	33.8	11.0	29.8	8.4
AVERAGE	24.360	29.797	21.520	6.478	14.905	8.496
ST. DEV.	1.372	1.631	17.423	6.367	21.079	0.121
%RSD	5.631	5.473	80.959	98.287	141.421	1.426
MIN	23.390	28.644	9.201	1.976	0.000	8.410
MAX	25.330	30.950	33.840	10.980	29.810	8.581
n	2	2	2	2	2	2
BRH PES1 CORE	178.9	203.4	204.5	58.1	168.4	64.3
BRH PES2 CORE	LOST	LOST	LOST	LOST	LOST	LOST
BRH PES#2 CORE	981.3	899.7	1088.8	808.4	1753.2	670.0
BRH #3 BULK CORE	1084.7	1701.7	1592.0	959.7	4701.2	258.9
BRH #1-4 CORE	1212.7	1127.3	1502.3	649.7	1346.6	267.0
AVERAGE	864.378	983.039	1096.909	618.996	1992.364	315.054
ST. DEV.	466.700	619.684	634.002	394.756	1926.916	254.526
%RSD	53.993	63.038	57.799	63.774	96.715	80.788
MIN	178.883	203.415	204.524	58.124	168.367	64.297
MAX	1212.720	1701.690	1592.020	959.710	4701.220	670.030
n	4	4	4	4	4	4
BRH Jar4 0.5cm filtered swater						
BRH CLAY1	1255.93	1484.98	1690.41	146.54	577.11	0
BRH CLAY2	1526.12	893.96	1641.68	330.32	804.69	0
BRH SILT1						
BRH SILT2	664.47	433.71	599.45	303.62	504.42	0
BRH SAND						
	BKF, %	BEP, %	BAP, %	PER, %	INP, %	DBA, %
BRH CLAY1	6.56	7.75	8.83	0.77	3.01	0.00
BRH CLAY2	8.55	5.01	9.20	1.85	4.51	0.00
BRH SILT1						
BRH SILT2	6.67	4.35	6.02	3.05	5.06	0.00
BRH SAND						

Appendix 6: Bulk/Particles

	BPE, ng/g	Σ PAHs, ng/g	Amt filt, g	C(MG)	H(MG)	N(MG)	C(mg/g)
BRH PES2 Pip	0.0	1811.83					
BRH PES1 PIP	3.9	497.00					
AVERAGE	16.450	1154.42	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
ST. DEV.	23.264	929.73	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
%RSD	141.421	80.54	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
MIN	0.000	497.00	0.0000	0.000	0.000	0.000	
MAX	32.900	1811.83	0.0000	0.000	0.000	0.000	
n	2	2.00	0.0000	0.000	0.000	0.000	
BRH PES1 CORE	177.5	5964.09					
BRH PES2 CORE	LOST	LOST					
BRH PES#2 CORE	1671.3	18306.53					
BRH #3 BULK CORE	956.6	32590.91					
BRH #1-4 CORE	1303.6	23410.74	0.0120	0.674	0.205	0.080	56.338
AVERAGE	1027.246	20068.07	0.0120	0.674	0.205	0.080	
ST. DEV.	637.230	11105.86	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
%RSD	62.033	55.34	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
MIN	177.534	5964.09	0.0120	0.674	0.205	0.080	
MAX	1671.320	32590.91	0.0120	0.674	0.205	0.080	
n	4	4.00	1.0000	1.000	1.000	1.000	
BRH Jar4 0.5cm filtered swater		0.00					
BRH CLAY1	0	19149.30					
BRH CLAY2	0	17840.00					
BRH SILT1			0.0033	0.192	0.004	0.024	58.182
BRH SILT2	462.26	9965.48	0.0036	0.237	0.051	0.028	65.833
BRH SAND			0.0114	0.947	0.199	0.097	83.044
	BPE, %	Σ PAHs, %					
BRH CLAY1	0.00	100.00					
BRH CLAY2	0.00	100.00					
BRH SILT1							
BRH SILT2	4.64	100.00					
BRH SAND							

Appendix 6: Bulk/Particles

	H(mg/g)	N(mg/g)	clay % 2-4µm(10-80)	(silt) % 4-62µm(8-40)	(vfine-med sand) % 62-300µm(4-1.750)
BRH PES2 Pip					
BRH PES1 PIP					
AVERAGE			#DIV/0!	#DIV/0!	#DIV/0!
ST. DEV.			#DIV/0!	#DIV/0!	#DIV/0!
%RSD			#DIV/0!	#DIV/0!	#DIV/0!
MIN			0.000	0.000	0.000
MAX			0.000	0.000	0.000
n			0	0	0
BRH PES1 CORE					
BRH PES2 CORE					
BRH PES#2 CORE					
BRH #3 BULK CORE					
BRH #1-4 CORE	17.135	6.670			
AVERAGE			#DIV/0!	#DIV/0!	#DIV/0!
ST. DEV.			#DIV/0!	#DIV/0!	#DIV/0!
%RSD			#DIV/0!	#DIV/0!	#DIV/0!
MIN			0.000	0.000	0.000
MAX			0.000	0.000	0.000
n			0	0	0
BRH Jar4 0.5cm			3.26	85.19	11.55
filtered water			6.02	93.98	0.00
BRH CLAY1					
BRH CLAY2					
BRH SILT1	1.121	7.121	9.07	88.09	2.84
BRH SILT2	14.111	7.694	4.66	69.86	25.48
BRH SAND	17.491	8.500	1.83	48.53	49.64
BRH CLAY1					
BRH CLAY2					
BRH SILT1					
BRH SILT2					
BRH SAND					

Appendix 6: Bulk/Particles

	% sum	µm mode	µm med	µm x(vm)	µm SD(vm)	% conf
BRH PES2 Pip	0.00					
BRH PES1 PIP						
AVERAGE	0.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
ST. DEV.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
%RSD	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MIN	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00
n	1.00	0.00	0.00	0.00	0.00	0.00
BRH PES1 CORE						
BRH PES2 CORE						
BRH PES#2 CORE						
BRH #3 BULK CORE						
BRH #1-4 CORE						
AVERAGE	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
ST. DEV.	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
%RSD	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MIN	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00
BRH Jar4 0.5cm	100.00	25.56	19.19	29.49	30.32	100.00
filtered swater	100.00					
BRH CLAY1						
BRH CLAY2						
BRH SILT1	100.00	10.50	9.40	14.66	17.49	100.00
BRH SILT2	100.00	18.30	22.49	44.71	48.71	99.99
BRH SAND	100.00	135.82	61.30	81.61	67.82	100.00
BRH CLAY1						
BRH CLAY2						
BRH SILT1						
BRH SILT2						
BRH SAND						

APPENDIX 7. DISSOLVED PHASE DATA

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	Amt filtered, mL	CB008, ng	CB018, ng	CB029, ng	CB050, ng
BRH PES1 DISS 0ORG	0	100	0.15	0.09	0.00	0.02
BRH PES1 DISS 2ORG	2	200	0.72	0.60	0.33	0.80
BRH PES1 DISS 3ORG	3	200	0.09	0.06	0.00	0.00
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	100	1.45	0.91	0.00	0.20
BRH PES1 DISS 2ORG	2	200	3.58	2.99	1.66	3.99
BRH PES1 DISS 3ORG	3	200	0.45	0.30	0.00	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm ¹²	CB028, ng	CB052, ng	CB104, ng	CB044, ng	CB066, ng
BRH PES1 DISS 0ORG	0	0.18	0.11	0.22	0.08	0.24
BRH PES1 DISS 2ORG	2	0.73	0.45	0.31	0.53	1.09
BRH PES1 DISS 3ORG	3	0.11	0.10	0.00	0.08	0.11
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	1.75	1.10	2.17	0.80	2.44
BRH PES1 DISS 2ORG	2	3.65	2.27	1.55	2.67	5.47
BRH PES1 DISS 3ORG	3	0.54	0.48	0.00	0.42	0.55

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	CB101, ng	CB087, ng	CB077, ng	CB154, ng	CB118, ng
BRH PES1 DISS 0ORG	0	0.04	0.02	0.03	0.01	0.03
BRH PES1 DISS 2ORG	2	2.55	0.56	0.62	0.16	0.64
BRH PES1 DISS 3ORG	3	0.04	0.01	0.03	0.01	0.06
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	0.44	0.22	0.31	0.08	0.28
BRH PES1 DISS 2ORG	2	12.77	2.81	3.08	0.82	3.22
BRH PES1 DISS 3ORG	3	0.22	0.07	0.15	0.04	0.28

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	CB188, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng
BRH PES1 DISS 0ORG	0	0.00	0.06	0.02	0.04	0.00
BRH PES1 DISS 2ORG	2	0.34	2.73	0.76	0.60	0.09
BRH PES1 DISS 3ORG	3	0.00	3.33	0.03	0.03	0.00
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	0.00	0.60	0.22	0.35	0.00
BRH PES1 DISS 2ORG	2	1.69	13.67	3.80	3.02	0.00
BRH PES1 DISS 3ORG	3	0.00	16.65	0.17	0.14	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	CB187, ng	CB128, ng	CB200, ng	CB180, ng	CB170, ng
BRH PES1 DISS 0ORG	0	0.02	0.00	0.02	0.02	0.65
BRH PES1 DISS 2ORG	2	0.74	0.00	0.00	14.23	0.00
BRH PES1 DISS 3ORG	3	0.02	0.00	0.00	0.02	0.38
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	0.23	0.04	0.20	0.24	6.46
BRH PES1 DISS 2ORG	2	3.68	0.00	0.00	71.13	0.00
BRH PES1 DISS 3ORG	3	0.10	0.00	0.02	0.10	1.91

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	CB195, ng	CB206, ng	CB209, ng	CB sum, ng	HCB, ng
BRH PES1 DISS 0ORG	0	0.08	0.11	0.01	2.25	0.03
BRH PES1 DISS 2ORG	2	0.00	0.00	3.03	32.54	0.20
BRH PES1 DISS 3ORG	3	0.03	0.25	0.05	4.88	0.02
Data not corrected for blanks						
BRH PES1 DISS 0ORG	0	0.84	1.08	0.12	22.54	0.31
BRH PES1 DISS 2ORG	2	0.00	0.00	15.17	162.71	1.00
BRH PES1 DISS 3ORG	3	0.13	1.25	0.44	24.40	0.12

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	HEPT, ng	ALDRIN, ng	OP'DDE, ng	DIELDIN, ng
BRH PES1 DISS 0ORG	0	0.05	0.06	0.04	0.01
BRH PES1 DISS 2ORG	2	0.21	12.55	1.39	0.64
BRH PES1 DISS 3ORG	3	0.00	0.36	0.03	0.01
Data not corrected for blanks					
BRH PES1 DISS 0ORG	0	0.52	0.62	0.40	0.08
BRH PES1 DISS 2ORG	2	1.03	62.76	6.94	3.18
BRH PES1 DISS 3ORG	3	0.00	1.82	0.16	0.03

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm ²	PP'DDE, ng	OP'DDD, ng	PP'DDD, ng	OP'DDT, ng
BRH PES1 DISS 0ORG	0	0.02	0.00	0.00	0.00
BRH PES1 DISS 2ORG	2	0.56	0.00	0.00	0.00
BRH PES1 DISS 3ORG	3	0.03	0.00	0.00	0.00
Data not corrected for Membrs					
BRH PES1 DISS 0ORG	0	0.20	0.00	0.00	0.00
BRH PES1 DISS 2ORG	2	2.79	0.00	0.00	0.00
BRH PES1 DISS 3ORG	3	0.13	0.00	0.00	0.00

Appendix 7: Dissolved Phase Organics

BRH PES I Observed	Dyne-cm ²	MIREX, ng	NAP, ng	2MN, ng	IMN, ng	BIP, ng	DMN, ng
BRH PES1 DISS 0ORG	0	0.09	712.62	0.29	0.53		6.26
BRH PES1 DISS 2ORG	2	0.00	309.00	0.83	0.93		5.32
BRH PES1 DISS 3ORG	3	0.64	682.76	0.63	0.00		4.62
Data not corrected for blanks							
BRH PES1 DISS 0ORG	0	0.91	7126.20	2.90	5.30	0.00	62.57
BRH PES1 DISS 2ORG	2	0.00	1545.00	4.15	4.65	0.00	26.60
BRH PES1 DISS 3ORG	3	3.21	3413.80	3.24	0.00	0.00	23.11

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	ACL, ng	ACT, ng	TMN, ng	FLU, ng	PHE, ng	ANT, ng
BRH PES1 DISS 0ORG	0	1.62	3.94	3.07	9.89	30.57	8.25
BRH PES1 DISS 2ORG	2	3.40	2.27	2.96	3.41	1.81	5.77
BRH PES1 DISS 3ORG	3	1.74	5.58	3.84	7.30	39.70	12.69
Data not corrected for blanks							
BRH PES1 DISS 0ORG	0	16.18	39.38	30.66	98.89	305.70	82.53
BRH PES1 DISS 2ORG	2	17.00	11.35	14.80	17.05	9.05	28.85
BRH PES1 DISS 3ORG	3	8.71	27.88	19.21	36.50	198.50	63.47

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	IMP, ng	FLA, ng	PYR, ng	BAA, ng	CHR, ng	BBF, ng
BRH PES1 DISS 0ORG	0	4.26	0.00	0.00	2.88	0.00	7.69
BRH PES1 DISS 2ORG	2	0.00	0.00	0.00	2.78	0.00	7.90
BRH PES1 DISS 3ORG	3	9.35	3.73	6.63	3.13	0.00	7.68
Data not corrected for blanks							
BRH PES1 DISS 0ORG	0	42.64	0.00	0.00	28.80	0.00	76.87
BRH PES1 DISS 2ORG	2	0.00	0.00	0.00	13.90	0.00	39.50
BRH PES1 DISS 3ORG	3	46.74	18.65	33.15	15.65	0.00	38.40

Appendix 7: Dissolved Phase Organics

RRH PES 1 Dissolved	Dynes/cm^2	BKF, ng	BEP, ng	BAP, ng	PER, ng	INP, ng	DBA, ng
BRH PES1 DISS 0ORG	0	0.00	1.00	1.55	0.00	9.78	7.48
BRH PES1 DISS 2ORG	2	0.00	1.73	2.98	0.00	9.71	7.40
BRH PES1 DISS 3ORG	3	0.00	1.11	1.60	0.00	9.71	7.51
Data not corrected for blanks							
BRH PES1 DISS 0ORG	0	0.00	10.01	15.45	0.00	97.84	74.75
BRH PES1 DISS 2ORG	2	0.00	8.65	14.90	0.00	48.55	37.00
BRH PES1 DISS 3ORG	3	0.00	5.57	8.01	0.00	48.55	37.54

Appendix 7: Dissolved Phase Organics

BRH PES 1 Dissolved	Dynes/cm^2	BPE, ng	Σ PAHs, ng
BRH PES1 DISS 0ORG	0	7.74	819.41
BRH PES1 DISS 2ORG	2	7.74	375.94
BRH PES1 DISS 3ORG	3	7.75	817.09
Data not corrected for blanks			
BRH PES1 DISS 0ORG	0	77.36	8194.05
BRH PES1 DISS 2ORG	2	38.70	1879.70
BRH PES1 DISS 3ORG	3	38.75	4085.44

Appendix 7: Dissolved Phase Organics

BRH PES 2 not solved	Dynes/cm^2	Amt Filt, ml	CB008, ng	CB018, ng	CB029, ng	CB050, ng
BRH PES2 DISS 0 ORG	0	100	0.00	0.00	0.01	0.20
PES2 DISS2,1/2,2PT1	2	100	0.20	0.00	0.00	0.24
BRH2 2,2ORGDB	2	50	0.07	0.00	0.00	0.36
Average 2 dynes/cm^2			0.13	0.00	0.00	0.30
BRH2 3,1ORGDA	3	50	0.29	0.09	0.07	0.03
BRH 3,1ORGDB	3	50	0.00	0.00	0.00	0.04
BRH PES2 3,2ORGDA	3	50	0.00	0.00	0.00	0.03
BRH DISS 3,2 ORG DB	3	50	0.21	0.00	0.00	0.54
Average 3 dynes/cm^2			0.13	0.02	0.02	0.16
BRH DISS 4,1/4,2 COMBO	4	150	0.13	0.17	0.00	0.36
Data not corrected for blanks						
BRH PES 2 Dissolved	Dynes/cm^2	Amt Filt, ml	CB008, ng/L	CB018, ng/L	CB029, ng/L	CB050, ng/L
BRH PES2 DISS 0 ORG	0	100	0.00	0.00	0.10	2.00
PES2 DISS2,1/2,2PT1	2	100	2.01	0.00	0.00	2.37
BRH2 2,2ORGDB	2	50	1.37	0.00	0.00	7.16
Average 2 dynes/cm^2			1.69	0.00	0.00	4.76
BRH2 3,1ORGDA	3	50	5.84	1.77	1.38	0.63
BRH 3,1ORGDB	3	50	0.00	0.00	0.00	0.83
BRH PES2 3,2ORGDA	3	50	0.00	0.00	0.00	0.55
BRH DISS 3,2 ORG DB	3	50	4.24	0.00	0.00	10.85
Average 3 dynes/cm^2			2.52	0.44	0.35	3.22
BRH DISS 4,1/4,2 COMBO	4	150	0.89	1.15	0.00	2.39

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2	CB028, ng	CB052, ng	CB104, ng	CB044, ng	CB066, ng
	0	0.17	0.07	0.19	0.70	0.13
PES2 DISS2,1/2,2PT1	2	0.16	0.11	0.00	0.00	0.00
BRH2 2,2ORGDB	2	0.09	0.22	0.11	0.10	0.15
Average 2 dynes/cm^2		0.12	0.16	0.06	0.05	0.07
BRH2 3,1ORGDA	3	0.07	0.12	0.25	0.14	0.04
BRH 3,1ORGDB	3	0.05	0.00	0.00	0.00	0.01
BRH PES2 3,2ORGDA	3	0.07	0.00	0.00	0.00	0.03
BRH DISS 3,2 ORG DB	3	0.65	0.07	0.00	0.00	0.00
Average 3 dynes/cm^2		0.21	0.05	0.06	0.03	0.02
BRH DISS 4,1/4,2 COMBO	4	0.07	0.33	0.00	0.17	0.17
Data not corrected for blanks						
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2	CB028, ng/L	CB052, ng/L	CB104, ng/L	CB044, ng/L	CB066, ng/L
	0	1.70	0.70	1.90	7.00	1.30
PES2 DISS2,1/2,2PT1	2	1.59	1.12	0.00	0.00	0.00
BRH2 2,2ORGDB	2	1.77	4.31	2.22	1.93	2.91
Average 2 dynes/cm^2		1.68	2.72	1.11	0.96	1.45
BRH2 3,1ORGDA	3	1.33	2.44	4.99	2.76	0.84
BRH 3,1ORGDB	3	1.02	0.00	0.00	0.00	0.27
BRH PES2 3,2ORGDA	3	1.41	0.00	0.00	0.00	0.60
BRH DISS 3,2 ORG DB	3	13.06	1.32	0.00	0.00	0.00
Average 3 dynes/cm^2		4.21	0.94	1.25	0.69	0.43
BRH DISS 4,1/4,2 COMBO	4	0.43	2.18	0.00	1.16	1.14

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	CB101, ng 0.16	CB087, ng 0.06	CB077, ng 0.00	CB154, ng 0.00	CB118, ng 0.18
FES2 DISS2,1/2,2PT1	2	0.12	0.04	0.15	0.01	0.21
BRH2 2,2ORGDB	2	0.21	0.05	0.24	0.02	0.41
Average 2 dynes/cm^2		0.16	0.05	0.20	0.02	0.31
BRH2 3,1ORGDA	3	0.13	0.07	0.25	0.06	0.36
BRH 3,1ORGDB	3	0.04	0.01	0.05	0.00	0.10
BRH PES2 3,2ORGDA	3	0.16	0.00	0.10	0.01	0.34
BRH DISS 3,2 ORG DB	3	0.04	0.30	0.51	0.00	0.12
Average 3 dynes/cm^2		0.09	0.10	0.23	0.02	0.23
BRH DISS 4,1/4,2 COMBO	4	0.41	0.05	0.44	0.04	0.59
Data not corrected for blanks						
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	CB101, ng/L 1.60	CB087, ng/L 0.60	CB077, ng/L 0.00	CB154, ng/L 0.00	CB118, ng/L 1.80
PES2 DISS2,1/2,2PT1	2	1.22	0.43	1.52	0.14	2.09
BRH2 2,2ORGDB	2	4.13	1.08	4.80	0.40	8.24
Average 2 dynes/cm^2		2.67	0.76	3.16	0.27	5.17
BRH2 3,1ORGDA	3	2.52	1.41	5.10	1.16	7.15
BRH 3,1ORGDB	3	0.75	0.28	1.09	0.10	2.00
BRH PES2 3,2ORGDA	3	3.30	0.00	2.07	0.27	6.81
BRH DISS 3,2 ORG DB	3	0.84	5.92	10.21	0.00	2.40
Average 3 dynes/cm^2		1.85	1.90	4.62	0.38	4.59
BRH DISS 4,1/4,2 COMBO	4	2.76	0.35	2.96	0.26	3.90

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2	CB188, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng
	0	0.01	0.44	0.35	0.08	0.13
PES2 DISS2,1/2,2PT1	2	0.00	0.13	0.06	0.08	0.00
BRH2 2,2ORGDB	2	0.00	0.14	0.06	0.16	0.00
Average 2 dynes/cm^2		0.00	0.14	0.06	0.12	0.00
BRH2 3,1ORGDA	3	0.05	0.14	0.15	0.20	0.51
BRH 3,1ORGDB	3	0.00	0.03	0.02	0.16	0.01
BRH PES2 3,2ORGDA	3	0.00	0.07	0.11	0.05	0.03
BRH DISS 3,2 ORG DB	3	0.35	0.17	0.10	0.32	0.17
Average 3 dynes/cm^2		0.10	0.10	0.09	0.18	0.18
BRH DISS 4,1/4,2 COMBO	4	0.06	0.35	0.23	0.31	0.04
Data not corrected for blanks						
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2	CB188, ng/L	CB153, ng/L	CB105, ng/L	CB138, ng/L	CB126, ng/L
	0	0.10	4.40	3.50	0.80	1.30
PES2 DISS2,1/2,2PT1	2	0.00	1.35	0.64	0.82	0.00
BRH2 2,2ORGDB	2	0.00	2.84	1.29	3.26	0.00
Average 2 dynes/cm^2		0.00	2.10	0.97	2.04	0.00
BRH2 3,1ORGDA	3	1.01	2.71	2.98	3.98	10.30
BRH 3,1ORGDB	3	0.00	0.65	0.39	3.27	0.25
BRH PES2 3,2ORGDA	3	0.00	1.46	2.13	0.95	0.61
BRH DISS 3,2 ORG DB	3	7.02	3.50	2.05	6.46	3.38
Average 3 dynes/cm^2		2.01	2.08	1.89	3.67	5.64
BRH DISS 4,1/4,2 COMBO	4	0.40	2.32	1.55	2.07	0.24

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	CB187, ng 0.60	CB128, ng 0.01	CB200, ng 0.61	CB180, ng 0.00	CB170, ng 0.00
PES2 DISS2,1/2,2PT1	2	0.06	0.00	0.00	0.05	0.05
BRH2 2,2ORGDB	2	0.05	0.06	0.00	0.07	0.15
Average 2 dynes/cm^2		0.05	0.03	0.00	0.06	0.10
BRH2 3,1ORGDA	3	0.39	0.22	0.04	0.11	0.15
BRH 3,1ORGDB	3	0.04	0.00	0.01	0.02	0.00
BRH PES2 3,2ORGDA	3	0.05	0.00	0.00	0.05	0.05
BRH DISS 3,2 ORG DB	3	0.33	0.06	0.00	0.09	0.13
Average 3 dynes/cm^2		0.20	0.07	0.01	0.07	0.08
BRH DISS 4,1/4,2 COMBO	4	0.11	0.05	0.02	0.15	0.08
Data not corrected for blanks						
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	CB187, ng/L 6.00	CB128, ng/L 0.10	CB200, ng/L 6.10	CB180, ng/L 0.00	CB170, ng/L 0.00
PES2 DISS2,1/2,2PT1	2	0.55	0.00	0.00	0.52	0.48
BRH2 2,2ORGDB	2	0.99	1.10	0.00	1.30	3.01
Average 2 dynes/cm^2		0.77	0.55	0.00	0.91	1.75
BRH2 3,1ORGDA	3	7.80	4.48	0.84	2.14	3.05
BRH 3,1ORGDB	3	0.84	0.00	0.10	0.36	0.00
BRH PES2 3,2ORGDA	3	1.10	0.00	0.00	0.97	1.01
BRH DISS 3,2 ORG DB	3	6.53	1.20	0.00	1.85	2.60
Average 3 dynes/cm^2		4.07	1.42	0.23	1.33	1.67
BRH DISS 4,1/4,2 COMBO	4	0.71	0.31	0.11	1.00	0.51

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved	Dynes/cm ²	CB195, ng	CB206, ng	CB209, ng	CB sum, ng	HCB, ng
BRH PES2 DISS 0 ORG	0	0.73	0.78	0.67	6.28	0.00
PES2 DISS2,1/2,2PT1	2	0.06	0.17	0.00	1.92	1.26
BRH2 2,2ORGDE	2	0.00	0.06	0.00	3.64	0.71
Average 2 dynes/cm ²		0.03	0.12	0.00	2.78	0.99
BRH2 3,1ORGDA	3	0.07	0.61	0.07	4.66	0.83
BRH 3,1ORGDE	3	0.02	0.09	0.01	0.73	0.00
BRH PES2 3,2ORGDA	3	0.04	0.10	0.00	1.30	2.80
BRH DISS 3,2 ORG DE	3	0.03	0.15	0.01	5.09	0.00
Average 3 dynes/cm ²		0.04	0.23	0.02	2.95	0.91
BRH DISS 4,1/4,2 COMBO	4	0.06	0.13	0.03	4.52	0.44
Data not corrected for blanks						
RRH PES 2 Dissolved	Dynes/cm ²	CB195, ng/L	CB206, ng/L	CB209, ng/L	CB sum, ng/L	HCB, ng/L
RRH PES2 DISS 0 ORG	0	7.30	7.80	6.70	62.80	0.00
PES2 DISS2,1/2,2PT1	2	0.59	1.74	0.00	19.18	12.62
BRH2 2,2ORGDE	2	0.00	1.23	0.00	72.75	1.28
Average 2 dynes/cm ²		0.30	1.48	0.00	43.97	13.45
BRH2 3,1ORGDA	3	1.34	11.93	1.43	93.29	16.66
BRH 3,1ORGDE	3	0.37	1.80	0.16	14.54	0.00
BRH PES2 3,2ORGDA	3	0.82	1.97	0.00	26.02	56.00
BRH DISS 3,2 ORG DE	3	0.65	3.00	0.12	101.86	0.00
Average 3 dynes/cm ²		0.79	4.67	0.43	58.93	18.17
BRH DISS 4,1/4,2 COMBO	4	0.41	0.90	0.22	30.11	2.95

Appendix 7: Dissolved Phase Organics

BRH PLS 2 Dissolved	Dynes/cm^2	HEPT, ng	ALDRIN, ng	OP'DDE, ng	DIELDRIN, ng
BRH PES2 DISS 0 ORG	0	0.00	0.26	0.00	0.00
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00
BRH2 2,2ORGDB	2	0.00	0.00	0.00	0.04
Average 2 dynes/cm^2		0.00	0.00	0.00	0.02
BRH2 3,1ORGDA	3	0.00	0.00	0.00	0.05
BRH 3,1ORGDB	3	0.00	0.00	0.00	0.09
BRH PES2 3,2ORGDA	3	0.00	0.00	0.22	0.00
BRH DISS 3,2 ORG DB	3	0.00	0.00	0.00	0.75
Average 3 dynes/cm^2		0.00	0.00	0.06	0.22
BRH DISS 4,1/4,2 COMBO	4	0.00	0.00	0.18	0.25
Data not corrected for blanks					
BRH PES 2 Dissolved	Dynes/cm^2	HEPT, ng/L	ALDRIN, ng/L	OP'DDE, ng/L	DIELDRIN, ng/L
BRH PES2 DISS 0 ORG	0	0.00	2.60	0.00	0.00
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00
BRH2 2,2ORGDB	2	0.00	0.00	0.00	0.83
Average 2 dynes/cm^2		0.00	0.00	0.00	0.42
BRH2 3,1ORGDA	3	0.00	0.00	0.00	1.06
BRH 3,1ORGDB	3	0.00	0.00	0.00	1.75
BPH PES2 3,2ORGDA	3	0.00	0.00	4.50	0.00
BRH DISS 3,2 ORG DB	3	0.00	0.00	0.00	15.06
Average 3 dynes/cm^2		0.00	0.00	1.12	4.47
BRH DISS 4,1/4,2 COMBO	4	0.00	0.00	1.20	1.54

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved	Dynes/cm^2	PP'DDE, ng	OP'DDD, ng	PP'DDD, ng	OP'DDT, ng
BRH PES2 DISS 0 ORG	0	0.00	0.00	0.22	0.23
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00
BRH2 2,2ORGDB	2	0.00	0.00	0.00	0.00
Average 2 dynes/cm^2		0.00	0.00	0.00	0.00
BRH2 3,1ORGDA	3	0.00	0.00	0.07	0.06
BRH 3,1ORGDB	3	0.00	0.00	0.00	0.00
BRH PES2 3,2ORGDA	3	0.00	0.00	0.00	0.00
BRH DISS 3,2 ORG DB	3	0.00	0.00	1.62	0.71
Average 3 dynes/cm^2		0.00	0.00	0.42	0.19
BRH DISS 4,1/4,2 COMBO	4	0.00	0.00	0.09	0.00
Data not corrected for blanks					
BRH PES 2 Dissolved	Dynes/cm^2	PP'DDE, ng/L	OP'DDD, ng/L	PP'DDD, ng/L	OP'DDT, ng/L
BRH PES2 DISS 0 ORG	0	0.00	0.00	2.20	2.30
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00
BRH2 2,2ORGDB	2	0.00	0.00	0.00	0.00
Average 2 dynes/cm^2		0.00	0.00	0.00	0.00
BRH2 3,1ORGDA	3	0.00	0.00	1.44	1.22
BRH 3,1ORGDB	3	0.00	0.00	0.00	0.00
BRH PES2 3,2ORGDA	3	0.00	0.00	0.00	0.00
BRH DISS 3,2 ORG DB	3	0.00	0.00	32.45	14.20
Average 3 dynes/cm^2		0.00	0.00	8.47	3.85
BRH DISS 4,1/4,2 COMBO	4	0.00	0.00	0.61	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	MIREX, ng 0.30	NAP, ng N.A.	2MN, ng N.A.	1MN, ng N.A.	BIP, ng N.A.	DMN, ng N.A.
PES2 DISS2,1/2,2PT1	2	0.00	25.38	4.88	3.80	0.00	0.00
BRH2 2,2ORGDB	2	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm^2		0.00	25.38	4.88	3.80	0.00	0.00
BRH2 3,1ORGDA	3	0.03	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	0.02	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	0.00	13.20	7.58	0.00	0.00	0.00
Average 3 dynes/cm^2		0.01	13.20	7.58	0.00	0.00	0.00
BRH DISS 4,1/4,2 COMBO	4	0.00	23.80	0.00	0.00	11.84	15.17
Data not corrected for blanks							
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	MIREX, ng/L 3.00	NAP, ng/L N.A.	2MN, ng/L N.A.	1MN, ng/L N.A.	BIP, ng/L N.A.	DMN, ng/L N.A.
PES2 DISS2,1/2,2PT1	2	0.00	253.80	48.80	38.00	0.00	0.00
BRH2 2,2ORGDB	2	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm^2		0.00	253.80	48.80	38.00	0.00	0.00
BRH2 3,1ORGDA	3	0.58	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	0.44	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	0.00	264.00	151.60	0.00	0.00	0.00
Average 3 dynes/cm^2		0.26	264.00	151.60	0.00	0.00	0.00
BRH DISS 4,1/4,2 COMBO	4	0.00	158.67	0.00	0.00	78.93	101.13

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm ² 0	ACL, ng N.A.	ACT, ng N.A.	TMN, ng N.A.	FLU, ng N.A.	PHE, ng N.A.	ANT, ng N.A.
PES2 DISS2,1/2,2PT1	2	0.00	13.83	6.12	5.25	15.52	0.54
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm ²		0.00	13.83	6.12	5.25	15.52	0.54
BRH2 3,1ORGLA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	0.00	0.00	9.34	0.00	3.89	0.00
Average 3 dynes/cm ²		0.00	0.00	9.34	0.00	3.89	0.00
BRH DISS 4,1/4,2 COMBO	4	11.67	22.37	65.06	6.04	34.61	48.44
Data not corrected for blanks							
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm ² 0	ACL, ng/L N.A.	ACT, ng/L N.A.	TMN, ng/L N.A.	FLU, ng/L N.A.	PHE, ng/L N.A.	ANT, ng/l N.A.
PES2 DISS2,1/2,2PT1	2	0.00	138.30	61.20	52.50	155.20	5.40
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm ²		0.00	138.30	61.20	52.50	155.20	5.40
BRH2 3,1ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	0.00	0.00	186.80	0.00	77.80	0.00
Average 3 dynes/cm ²		0.00	0.00	186.80	0.00	77.80	0.00
BRH DISS 4,1/4,2 COMBO	4	77.80	149.13	433.73	40.27	230.73	322.93

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	1MP, ng N.A.	FLA, ng N.A.	PYR, ng N.A.	BAA, ng N.A.	CHR, ng N.A.	BBF, ng N.A.
PES2 DISS2,1/2,2PT1	2	1.81	19.30	14.70	0.00	0.00	0.00
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm^2		1.81	19.30	14.70	0.00	0.00	0.00
BRH2 3,1ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	0.27	5.37	4.73	0.40	0.51	0.00
Average 3 dynes/cm^2		0.27	5.37	4.73	0.40	0.51	0.00
BRH DISS 4,1/4,2 COMBO	4	12.90	40.69	40.02	4.23	11.54	15.34
Data not corrected for blanks							
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	1MP, ng/L N.A.	FLA, ng/L N.A.	PYR, ng/L N.A.	BAA, ng/L N.A.	CHR, ng/L N.A.	BBF, ng/L N.A.
PES2 DISS2,1/2,2PT1	2	18.10	193.00	147.00	0.00	0.00	0.00
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm^2		18.10	193.00	147.00	0.00	0.00	0.00
BRH2 3,1ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BPH DISS 3,2 ORG DB	3	5.40	107.40	94.60	8.00	10.20	0.00
Average 3 dynes/cm^2		5.40	107.40	94.60	8.00	10.20	0.00
BRH DISS 4,1/4,2 COMBO	4	86.00	271.27	266.80	28.20	76.93	102.27

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm ² 0	BKF, ng N.A.	BEP, ng N.A.	BAP, ng N.A.	PER, ng N.A.	INP, ng N.A.	DEA, ng N.A.
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00	0.00	11.19
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm ²		0.00	0.00	0.00	0.00	0.00	11.19
BRH2 3,1ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	11.92	19.17	7.67	1.30	1.04	4.75
Average 3 dynes/cm ²		11.92	19.17	7.67	1.30	1.04	4.75
BRH DISS 4,1/4,2 COMBO	4	9.44	21.18	1.04	2.28	0.00	11.27
Data not corrected for blanks							
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm ² 0	BKF, ng/L N.A.	BEP, ng/L N.A.	BAP, ng/L N.A.	PER, ng/L N.A.	INP, ng/L N.A.	DRA, ng/L N.A.
PES2 DISS2,1/2,2PT1	2	0.00	0.00	0.00	0.00	0.00	111.90
BRH2 2,2ORGDB	2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Average 2 dynes/cm ²		0.00	0.00	0.00	0.00	0.00	111.90
BRH2 3,1ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	238.40	383.40	153.40	26.00	20.80	95.00
Average 3 dynes/cm ²		238.40	383.40	153.40	26.00	20.80	95.00
BRH DISS 4,1/4,2 COMBO	4	62.93	141.20	6.93	15.20	0.00	75.13

Appendix 7: Dissolved Phase Organics

BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	BPE, ng N.A.	Σ PAHs, ng N.A.
PES2 DISS2,1/2,2PT1	2	0.00	122.3
BRH2 2,2ORCDB	2	N.A.	N.A.
Average 2 dynes/cm^2		0.00	122.32
BRH2 3,1ORGDA	3	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	1.96	93.1
Average 3 dynes/cm^2		1.96	93.10
BRH DISS 4,1/4,2 COMBO	4	3.86	412.8
Data not corrected for blanks			
BRH PES 2 Dissolved BRH PES2 DISS 0 ORG	Dynes/cm^2 0	BPE, ng/L N.A.	Σ PAHs, ng/L N.A.
PES2 DISS2,1/2,2PT1	2	0.00	1223.20
BRH2 2,2ORGDB	2	N.A.	N.A.
Average 2 dynes/cm^2		0.00	1223.20
BRH2 3,1ORGDA	3	N.A.	N.A.
BRH 3,1ORGDB	3	N.A.	N.A.
BRH PES2 3,2ORGDA	3	N.A.	N.A.
BRH DISS 3,2 ORG DB	3	39.20	1862.00
Average 3 dynes/cm^2		39.20	1862.00
BRH DISS 4,1/4,2 COMBO	4	25.73	2751.93

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm ²	Amt filt, mL	CB008, ng	CB018, ng	CB029, ng	CB050, ng
BRH PES3 DISS 0ORG	0	100	0.09	0.24	0.11	0.10
BRH PES3 DISS 2ORG	2	200	0.19	0.30	0.66	2.01
BRH PES3 DISS 3ORG	3	200	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	100	0.06	0.17	0.03	0.00
BRH PES3 DISS 5,1-A	5	25	0.15	0.00	0.00	0.01
BRH PES3 DISS 5,1-B	5	25	0.00	0.00	0.00	0.05
BRH PES3 DISS 5,2-A	5	25	0.13	0.09	0.18	0.10
BRH PES3 DISS 5,2-B	5	25	0.05	0.00	0.00	0.04
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm ²	Amt filt, mL	CB008, ng/L	CB018, ng/L	CB029, ng/L	CB050, ng/L
BRH PES3 DISS 0ORG	0	100	0.88	2.37	1.13	1.01
BRH PES3 DISS 2ORG	2	200	0.97	1.50	3.28	10.06
BRH PES3 DISS 3ORG	3	200	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	100	0.60	1.71	0.29	0.00
BRH PES3 DISS 5,1-A	5	25	5.90	0.00	0.00	0.57
BRH PES3 DISS 5,1-B	5	25	0.00	0.00	0.00	1.98
BRH PES3 DISS 5,2-A	5	25	5.14	3.63	7.23	3.92
BRH PES3 DISS 5,2-B	5	25	2.18	0.00	0.00	1.47

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm ²	CB028, ng	CB052, ng	CB104, ng	CB044, ng	CB066, ng
BRH PES3 DISS 0ORG	0	0.26	0.12	0.50	0.09	0.16
BRH PES3 DISS 2ORG	2	4.82	1.08	1.41	0.90	0.24
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.07	0.08	0.25	0.05	0.17
BRH PES3 DISS 5,1-A	5	0.05	0.24	0.00	0.00	0.03
BRH PES3 DISS 5,1-B	5	0.14	0.06	0.00	0.00	0.00
BRH PES3 DISS 5,2-A	5	0.14	0.23	0.16	0.25	0.15
BRH PES3 DISS 5,2-B	5	0.12	0.04	0.00	0.00	0.05
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm ²	CB028, ng/L	CB052, ng/L	CB104, ng/L	CB044, ng/L	CB066, ng/L
BRH PES3 DISS 0ORG	0	2.61	1.25	4.96	0.91	1.61
BRH PES3 DISS 2ORG	2	24.11	5.41	7.04	4.49	1.18
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.68	0.84	2.46	0.47	1.69
BRH PES3 DISS 5,1-A	5	1.87	9.49	0.00	0.00	1.00
BRH PES3 DISS 5,1-B	5	5.77	2.28	0.00	0.00	0.00
BRH PES3 DISS 5,2-A	5	5.40	9.00	6.49	9.85	6.11
BRH PES3 DISS 5,2-B	5	4.87	1.59	0.00	0.00	2.02

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	CB101, ng	CB087, ug	CB077, ng	CB154, ng	CB118, ng
BRH PES3 DISS 0ORG	0	0.08	0.03	0.05	0.01	0.06
BRH PES3 DISS 2ORG	2	0.21	0.03	0.16	0.04	0.75
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.06	0.03	0.05	0.01	0.07
BRH PES3 DISS 5,1-A	5	0.06	0.00	0.07	0.01	0.10
BRH PES3 DISS 5,1-B	5	0.05	0.02	0.08	0.01	0.14
BRH PES3 DISS 5,2-A	5	0.14	0.10	0.16	0.08	0.30
BRH PES3 DISS 5,2-B	5	0.06	0.03	0.13	0.01	0.28
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm^2	CB101, ng/L	CB087, ng/L	CB077, ng/L	CB154, ng/L	CB118, ng/L
BRH PES3 DISS 0ORG	0	0.82	0.28	0.55	0.15	0.57
BRH PES3 DISS 2ORG	2	1.06	0.17	0.82	0.22	3.82
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.62	0.28	0.51	0.14	0.74
BRH PES3 DISS 5,1-A	5	2.20	0.00	2.97	0.28	4.11
BRH PES3 DISS 5,1-B	5	2.13	0.81	3.18	0.29	5.67
BRH PES3 DISS 5,2-A	5	5.75	3.92	6.51	3.39	11.83
BRH PES3 DISS 5,2-B	5	2.58	1.31	5.29	0.48	11.20

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	CB188, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng
BRH PES3 DISS 0ORG	0	0.00	0.15	0.01	0.05	0.00
BRH PES3 DISS 2ORG	2	0.07	0.65	0.18	0.13	0.00
BRH PES3 DISS 3ORG	3	0.00	0.17	0.05	0.00	0.00
BRH PES3 DISS 4ORG	4	0.00	0.32	0.09	0.06	0.00
BRH PES3 DISS 5,1-A	5	0.00	0.05	0.02	0.03	0.00
BRH PES3 DISS 5,1-B	5	0.00	0.06	0.03	0.07	0.00
BRH PES3 DISS 5,2-A	5	0.06	0.14	0.13	0.13	0.14
BRH PES3 DISS 5,2-B	5	0.00	0.08	0.08	0.07	0.00
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm^2	CB188, ng/L	CB153, ng/L	CB105, ng/L	CB138, ng/L	CB126, ng/L
BRH PES3 DISS 0ORG	0	0.00	1.52	0.11	0.54	0.00
BRH PES3 DISS 2ORG	2	0.36	3.25	0.90	0.67	0.00
BRH PES3 DISS 3ORG	3	0.00	0.86	0.24	0.00	0.00
BRH PES3 DISS 4ORG	4	0.05	3.23	0.90	0.60	0.00
BRH PES3 DISS 5,1-A	5	0.00	2.11	0.99	1.27	0.00
BRH PES3 DISS 5,1-B	5	0.00	2.60	1.37	2.78	0.00
BRH PES3 DISS 5,2-A	5	2.45	5.80	5.28	5.22	5.79
BRH PES3 DISS 5,2-B	5	0.00	3.32	3.11	2.61	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	CB187, ng	CB128, ng	CB200, ng	CB180, ng	CB170, ng
BRH PES3 DISS 0ORG	0	0.04	0.01	0.03	0.06	0.60
BRH PES3 DISS 2ORG	2	0.11	0.03	0.05	0.14	28.50
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	0.82
BRH PES3 DISS 4ORG	4	0.05	0.01	0.02	0.04	0.87
BRH PES3 DISS 5,1-A	5	0.02	0.00	0.00	0.03	0.03
BRH PES3 DISS 5,1-B	5	0.02	0.01	0.00	0.03	0.05
BRH PES3 DISS 5,2-A	5	0.12	0.14	0.05	0.11	0.15
BRH PES3 DISS 5,2-B	5	0.05	0.00	0.00	0.05	0.05
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm^2	CB187, ng/L	CB128, ng/L	CB200, ng/L	CB180, ng/L	CB170, ng/L
BRH PES3 DISS 0ORG	0	0.38	0.13	0.34	0.61	6.05
BRH PES3 DISS 2ORG	2	0.54	0.16	0.24	0.72	142.50
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00	4.09
BRH PES3 DISS 4ORG	4	0.45	0.10	0.22	0.41	8.67
BRH PES3 DISS 5,1-A	5	0.97	0.00	0.00	1.15	1.29
BRH PES3 DISS 5,1-B	5	0.65	0.28	0.00	1.13	2.11
BRH PES3 DISS 5,2-A	5	4.96	5.41	2.06	4.54	6.16
BRH PES3 DISS 5,2-B	5	1.80	0.00	0.00	2.12	1.88

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm ²	CB195, ng	CB206, ng	CB209, ng	CB sum, ng	HCB, ng
BRH PES3 DISS 0ORG	0	0.53	0.00	0.87	4.28	0.01
BRH PES3 DISS 2ORG	2	0.91	1.25	1.52	46.39	0.12
BRH PES3 DISS 3ORG	3	0.07	0.00	0.00	1.11	0.00
BRH PES3 DISS 4ORG	4	0.13	0.11	0.33	3.13	0.01
BRH PES3 DISS 5,1-A	5	0.03	0.09	0.01	1.03	0.71
BRH PES3 DISS 5,1-B	5	0.03	0.09	0.00	0.94	0.46
BRH PES3 DISS 5,2-A	5	0.08	0.14	0.06	3.68	0.30
BRH PES3 DISS 5,2-B	5	0.04	0.11	0.00	1.35	0.88
Data not corrected for blanks						
BRH PES 3 Dissolved	Dynes/cm ²	CB195, ng/L	CB206, ng/L	CB209, ng/L	CB sum, ng/L	HCB, ng/L
BRH PES3 DISS 0ORG	0	5.31	0.00	8.71	42.76	0.07
BRH PES3 DISS 2ORG	2	4.55	6.27	7.62	231.93	0.61
BRH PES3 DISS 3ORG	3	0.34	0.00	0.00	5.53	0.00
BRH PES3 DISS 4ORG	4	1.26	1.05	3.32	31.28	0.08
BRH PES3 DISS 5,1-A	5	1.03	3.42	0.59	41.19	28.39
BRH PES3 DISS 5,1-B	5	1.18	3.41	0.00	37.62	18.32
BRH PES3 DISS 5,2-A	5	3.21	5.61	2.35	147.03	11.95
BRH PES3 DISS 5,2-B	5	1.72	4.32	0.00	53.90	35.37

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm ²	HEPT, ng	ALDRIN, ng	OP'DDE, ng	DIELDRIN, ng
BRH PES3 DISS 00RG	0	0.00	0.04	0.06	0.01
BRH PES3 DISS 20RG	2	0.00	19.03	0.15	0.05
BRH PES3 DISS 30RG	3	0.00	0.36	0.00	0.00
BRH PES3 DISS 40RG	4	0.02	0.06	0.04	0.01
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	0.00	0.00	0.00	0.02
BRH PES3 DISS 5,2-A	5	0.00	0.18	0.08	0.00
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.02
Data not corrected for blanks					
BRH PES 3 Dissolved	Dynes/cm ²	HEPT, ng/L	ALDRIN, ng/L	OP'DDE, ng/L	DIELDRIN, ng/L
BRH PES3 DISS 00RG	0	0.00	0.39	0.60	0.11
BRH PES3 DISS 20RG	2	0.00	95.17	0.74	0.24
BRH PES3 DISS 30RG	3	0.00	1.82	0.00	0.00
BRH PES3 DISS 40RG	4	0.20	0.62	0.41	0.11
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	0.00	0.00	0.00	0.61
BRH PES3 DISS 5,2-A	5	0.00	7.33	2.01	0.00
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.97

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	PP'DDE, ng	OP'DDD, ng	FP'DDD, ng	OP'DDT, ng
BRH PES3 DISS 0ORG	0	0.04	0.00	0.00	0.00
BRH PES3 DISS 2ORG	2	0.14	0.00	0.00	0.00
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.02	0.00	0.00	0.00
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,2-A	5	0.08	0.00	0.08	0.05
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.00
Data not corrected for blanks					
BRH PES 3 Dissolved	Dynes/cm^2	PP'DDE, ng/L	OP'DDD, ng/L	FP'DDD, ng/L	OP'DDT, ng/L
BRH PES3 DISS 0ORG	0	0.36	0.00	0.00	0.00
BRH PES3 DISS 2ORG	2	0.70	0.00	0.00	0.00
BRH PES3 DISS 3ORG	3	0.00	0.00	0.00	0.00
BRH PES3 DISS 4ORG	4	0.24	0.00	0.00	0.00
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	0.00	0.00	0.00	0.00
BRH PES3 DISS 5,2-A	5	3.40	0.00	3.31	2.03
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	MIREX, ng	NAP, ng	2MN, ng	1MN, ng	BIP, ng	DMN, ng
BRH PES3 DISS 0ORG	0	0.64	394.84	0.00	0.00		5.44
BRH PES3 DISS 2ORG	2	3.56	892.08	1.12	4.18		6.92
BRH PES3 DISS 3ORG	3	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	0.77	737.92	0.94	1.51		4.33
BRH PES3 DISS 5,1-A	5	0.00	2.63	2.23	5.03	0.00	1.83
BRH PES3 DISS 5,1-B	5	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.02	37.35	4.50	3.37	1.66	1.81
BRH PES3 DISS 5,2-B	5	0.00	7.34	1.11	0.00	0.91	0.00
Data not corrected for blanks							
BRH PES 3 Dissolved	Dynes/cm^2	MIREX, ng/L	NAP, ng/L	2MN, ng/L	1MN, ng/L	BIP, ng/L	DMN, ng/L
BRH PES3 DISS 0ORG	0	6.36	3948.40	0.00	0.00	0.00	54.40
BRH PES3 DISS 2ORG	2	17.78	4460.41	5.59	20.91	0.00	34.60
BRH PES3 DISS 3ORG	3	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	7.65	7379.20	9.42	15.10	0.00	43.32
BRH PES3 DISS 5,1-A	5	0.00	105.20	89.20	201.20	0.00	73.20
BRH PES3 DISS 5,1-B	5	0.00	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.93	1494.00	180.00	134.80	66.40	72.40
BRH PES3 DISS 5,2-B	5	0.00	293.60	44.40	0.00	36.40	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	ACL, ng	ACT, ng	TMN, ng	FLU, ng	PHE, ng	ANT, ng
BRH PES3 DISS 0ORG	0	2.02	5.55	5.07	3.37	3.82	4.14
BRH PES3 DISS 2ORG	2	6.64	10.01	5.25	7.04	33.39	17.98
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	2.64	3.20	3.74	5.74	26.79	9.35
BRH PES3 DISS 5,1-A	5	0.00	2.78	9.78	0.89	2.64	0.88
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	1.21	9.55	0.48	2.55	0.12
BRH PES3 DISS 5,2-B	5	0.00	3.86	5.94	0.32	3.95	0.18
Data not corrected for blanks							
BRH PES 3 Dissolved	Dynes/cm^2	ACL, ng/L	ACT, ng/L	TMN, ng/L	FLU, ng/L	PHE, ng/L	ANT, ng/L
BRH PES3 DISS 0ORG	0	20.20	55.50	50.70	33.70	38.20	41.40
BRH PES3 DISS 2ORG	2	33.21	50.07	26.27	35.18	166.93	89.92
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	26.44	32.05	37.37	57.37	267.90	93.51
BRH PES3 DISS 5,1-A	5	0.00	111.20	391.20	35.60	105.60	35.20
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	48.40	382.00	19.20	102.00	4.80
BRH PES3 DISS 5,2-B	5	0.00	154.40	237.60	12.80	158.00	7.20

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm ²	IMP, ng	FLA, ng	PYR, ng	BAA, ng	CHR, ng	BBF, ng
BRH PES3 DISS 0ORG	0	11.54	0.00	0.77	2.99	0.00	7.83
BRH PES3 DISS 2ORG	2	15.24	3.12	9.59	3.56	0.00	8.55
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	3.95	0.12	2.71	2.78	0.00	7.79
BRH PES3 DISS 5,1-A	5	0.00	2.23	1.10	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	2.50	2.17	0.00	0.17	0.70
BRH PES3 DISS 5,2-B	5	0.19	4.61	3.75	0.00	0.00	0.00
Data not corrected for blanks							
BRH PES 3 Dissolved	Dynes/cm ²	IMP, ng/L	FLA, ng/L	PYR, ng/L	BAA, ng/L	CHR, ng/L	BBF, ng/L
BRH PES3 DISS 0ORG	0	115.40	0.00	7.70	29.90	0.00	78.30
BRH PES3 DISS 2ORG	2	76.20	15.60	47.96	17.80	0.00	43.27
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	39.51	1.20	27.10	27.80	0.00	77.86
BRH PES3 DISS 5,1-A	5	0.00	89.20	44.00	0.00	0.00	0.00
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	100.00	86.80	0.00	6.80	28.00
BRH PES3 DISS 5,2-B	5	7.60	184.40	150.00	0.00	0.00	0.00

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	RKF, ng	BEP, ng	BAP, ng	PER, ng	INP, ng	DBA, ng
BRH PES3 DISS 0ORG	0	0.00	1.63	2.00	0.00	9.71	7.40
BRH PES3 DISS 2ORG	2	0.00	2.98	4.47	0.00	10.64	7.40
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	0.00	1.00	1.52	0.00	9.71	7.40
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00	0.00	31.19
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.43	0.82	0.40	0.60	0.00	3.26
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.00	0.00	13.66
Data not corrected for blanks							
BRH PES 3 Dissolved	Dynes/cm^2	BKF, ng/L	BEP, ng/L	BAP, ng/L	PER, ng/L	INP, ng/L	DBA, ng/L
BRH PES3 DISS 0ORG	0	0.00	16.30	20.00	0.00	97.10	74.00
BRH PES3 DISS 2ORG	2	0.00	14.91	22.33	0.00	53.21	37.01
BRH PES3 DISS 3ORG	3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 4ORG	4	0.00	10.01	15.20	0.00	97.11	74.03
BRH PES3 DISS 5,1-A	5	0.00	0.00	0.00	0.00	0.00	1247.60
BRH PES3 DISS 5,1-B	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	17.20	32.80	16.00	24.00	0.00	130.40
BRH PES3 DISS 5,2-B	5	0.00	0.00	0.00	0.00	0.00	546.40

Appendix 7: Dissolved Phase Organics

BRH PES 3 Dissolved	Dynes/cm^2	BPE, ng	Σ PAHs, ng
BRH PES3 DISS 0ORG	0	7.74	475.86
BRH PES3 DISS 2ORG	2	8.59	1058.87
BRH PES3 DISS 3ORG	3	N.A.	N.A.
BRH PES3 DISS 4ORG	4	7.74	840.89
BRH PES3 DISS 5,1-A	5	0.00	63.21
BRH PES3 DISS 5,1-B	5	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	73.65
BRH PES3 DISS 5,2-B	5	0.00	45.82

Data not corrected for blanks

BRH PES 3 Dissolved	Dynes/cm^2	BPE, ng/L	Σ PAHs, ng/L
BRH PES3 DISS 0ORG	0	77.40	4758.60
BRH PES3 DISS 2ORG	2	42.96	5294.33
BRH PES3 DISS 3ORG	3	N.A.	N.A.
BRH PES3 DISS 4ORG	4	77.36	8408.87
BRH PES3 DISS 5,1-A	5	0.00	2528.40
BRH PES3 DISS 5,1-B	5	N.A.	N.A.
BRH PES3 DISS 5,2-A	5	0.00	2946.00
BRH PES3 DISS 5,2-B	5	0.00	1832.80

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm ²	Amt filt, mL	CB008, ng	CB018, ng	CB029, ng	CB050, ng
PR PES DISS 0ORG	0	100	0.04	0.17	0.12	0.07
PR PES DISS 2ORG	2	200	0.10	0.21	0.01	0.01
PR PES DISS 3ORG	3	200	0.00	0.34	0.02	0.01
PR PES DISS 4ORG	4	200	0.04	0.08	0.10	0.13
PR PES DISS 5ORG	5	160	0.02	0.18	0.03	0.01
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm ²	Amt filt, mL	CB008, ng/L	CB018, ng/L	CB029, ng/L	CB050, ng/L
PR PES DISS 0ORG	0	100	0.39	1.72	1.22	0.66
PR PES DISS 2ORG	2	200	0.52	1.05	0.04	0.03
PR PES DISS 3ORG	3	200	0.02	1.68	0.10	0.07
PR PES DISS 4ORG	4	200	0.21	0.42	0.51	0.67
PR PES DISS 5ORG	5	160	0.15	1.13	0.16	0.06

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	CB028, ng	CB052, ng	CB104, ng	CB044, ng	CB066, ng
PR PES DISS 0ORG	0	0.24	0.11	0.27	0.09	0.13
PR PES DISS 2ORG	2	0.04	0.09	0.00	0.03	0.20
PR PES DISS 3ORG	3	0.09	0.10	0.11	0.08	0.07
PR PES DISS 4ORG	4	0.25	0.10	0.28	0.13	0.06
PR PES DISS 5ORG	5	0.03	0.08	0.05	0.05	0.05
Data not corrected for blank's						
PR PES Dissolved	Dynes/cm^2	CB028, ng/L	CB052, ng/L	CB104, ng/L	CB044, ng/L	CB066, ng/L
PR PES DISS 0ORG	0	2.35	1.13	2.72	0.88	1.31
PR PES DISS 2ORG	2	0.18	0.45	0.00	0.13	0.98
PR PES DISS 3ORG	3	0.46	0.52	0.53	0.39	0.34
PR PES DISS 4ORG	4	1.23	0.50	1.40	0.64	0.28
PR PES DISS 5ORG	5	0.17	0.49	0.34	0.30	0.29

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	CB101, ng	CB087, ng	CB077, ng	CB154, ng	CB118, ng
PR PES DISS 0ORG	0	0.09	0.04	0.05	0.01	0.10
PR PES DISS 2ORG	2	0.14	0.06	0.11	0.03	0.10
PR PES DISS 3ORG	3	0.05	0.01	0.02	0.01	0.04
PR PES DISS 4ORG	4	0.03	0.01	0.02	0.01	0.03
PR PES DISS 5ORG	5	0.05	0.01	0.02	0.00	0.02
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm^2	CB101, ng/L	CB087, ng/L	CB077, ng/L	CB154, ng/L	CB118, ng/L
PR PES DISS 0ORG	0	0.85	0.37	0.54	0.14	1.02
PR PES DISS 2ORG	2	0.71	0.30	0.57	0.15	0.51
PR PES DISS 3ORG	3	0.27	0.05	0.11	0.03	0.19
PR PES DISS 4ORG	4	0.15	0.05	0.09	0.03	0.16
PR PES DISS 5ORG	5	0.29	0.07	0.12	0.03	0.10

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	CB188, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng
PR PES DISS 0ORG	0	0.00	0.13	0.04	0.08	0.00
PR PES DISS 2ORG	2	0.00	0.27	0.04	0.24	0.00
PR PES DISS 3ORG	3	0.00	0.06	0.02	0.02	0.00
PR PES DISS 4ORG	4	0.00	0.06	0.00	0.02	0.01
PR PES DISS 5ORG	5	0.00	0.06	0.02	0.03	0.00
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm^2	CB188, ng/L	CB153, ng/L	CB105, ng/L	CB138, ng/L	CB126, ng/L
PR PES DISS 0ORG	0	0.00	1.34	0.45	0.82	0.00
PR PES DISS 2ORG	2	0.00	1.34	0.20	1.19	0.00
PR PES DISS 3ORG	3	0.00	0.30	0.08	0.12	0.00
PR PES DISS 4ORG	4	0.00	0.32	0.00	0.12	0.05
PR PES DISS 5ORG	5	0.00	0.36	0.10	0.22	0.00

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm ²	CB187, ng	CB128, ng	CB200, ng	CB180, ng	CB170, ng
PR PES DISS 0ORG	0	0.07	0.05	0.13	0.20	0.86
PR PES DISS 2ORG	2	0.02	0.05	0.01	0.06	0.73
PR PES DISS 3ORG	3	0.02	0.02	0.02	0.04	4.33
PR PES DISS 4ORG	4	0.02	0.01	0.01	0.05	0.96
PR PES DISS 5ORG	5	0.01	0.00	0.01	0.02	0.72
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm ²	CB187, ng/L	CB128, ng/L	CB200, ng/L	CB180, ng/L	CB170, ng/L
PR PES DISS 0ORG	0	0.71	0.54	1.30	1.96	8.61
PR PES DISS 2ORG	2	0.11	0.24	0.05	0.28	3.64
PR PES DISS 3ORG	3	0.10	0.12	0.09	0.22	21.67
PR PES DISS 4ORG	4	0.08	0.03	0.07	0.26	4.81
PR PES DISS 5ORG	5	0.06	0.03	0.08	0.15	4.52

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	CB195, ng	CB206, ng	CB209, ng	CB sum, ng	HCB, ng
PR PES DISS 0ORG	0	0.28	0.48	0.29	4.15	0.02
PR PES DISS 2ORG	2	0.05	0.01	0.05	2.64	0.03
PR PES DISS 3ORG	3	0.24	0.06	0.06	5.85	0.00
PR PES DISS 4ORG	4	0.00	0.37	0.08	2.87	0.01
PR PES DISS 5ORG	5	0.07	0.03	0.07	1.64	0.01
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm^2	CB195, ng/L	CB206, ng/L	CB209, ng/L	CB sum, ng/L	HCB, ng/L
PR PES DISS 0ORG	0	2.82	4.75	2.93	41.53	0.15
PR PES DISS 2ORG	2	0.23	0.03	0.26	13.20	0.17
PR PES DISS 3ORG	3	1.20	0.32	0.29	29.26	0.01
PR PES DISS 4ORG	4	0.00	1.86	0.42	14.37	0.07
PR PES DISS 5ORG	5	0.44	0.16	0.41	10.22	0.04

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	HEPT, ng	ALDRIN, ng	OP'DDE, ng	DIELDRIN, ng	PP'DDE, ng
PR PES DISS 0ORG	0	0.00	0.23	0.05	0.01	0.00
PR PES DISS 2ORG	2	0.02	0.19	0.10	0.02	0.03
PR PES DISS 3ORG	3	0.00	0.40	0.03	0.01	0.00
PR PES DISS 4ORG	4	0.19	0.15	0.03	0.00	0.01
PR PES DISS 5ORG	5	0.00	0.30	0.02	0.01	0.00
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm^2	HEPT, ng/L	ALDRIN, ng/L	OP'DDE, ng/L	DIELDRIN, ng/L	PP'DDE, ng/L
PR PES DISS 0ORG	0	0.00	2.31	0.50	0.14	0.00
PR PES DISS 2ORG	2	0.09	0.97	0.50	0.12	0.13
PR PES DISS 3ORG	3	0.00	2.00	0.13	0.04	0.00
PR PES DISS 4ORG	4	0.96	0.77	0.15	0.02	0.06
PR PES DISS 5ORG	5	0.00	1.88	0.15	0.05	0.00

Appendix 7: Dissolve Phase Organics

PR PES Dissolved	Dynes/cm^2	OP'DDD, ng	PP'DDD, ng	OP'DDT, ng	MIREX, ng	NAP, ng
PR PES DISS 0ORG	0	0.00	0.02	0.00	1.67	N.A.
PR PES DISS 2ORG	2	0.00	0.00	0.00	0.15	502.54
PR PES DISS 3ORG	3	0.03	0.00	0.00	1.59	505.21
PR PES DISS 4ORG	4	0.00	0.00	0.00	0.17	431.48
PR PES DISS 5ORG	5	0.00	0.00	0.00	0.15	332.61
Data not corrected for blanks						
PR PES Dissolved	Dynes/cm^2	OP'DDD, ng/L	PP'DDD, ng/L	OP'DDT, ng/L	MIREX, ng/L	NAP, ng/L
PR PES DISS 0ORG	0	0.00	0.20	0.00	16.74	N.A.
PR PES DISS 2ORG	2	0.00	0.00	0.00	0.73	2512.70
PR PES DISS 3ORG	3	0.13	0.00	0.00	7.97	2526.05
PR PES DISS 4ORG	4	0.00	0.00	0.00	2.35	2157.40
PR PES DISS 5ORG	5	0.00	0.02	0.00	0.91	2078.81

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm ²	2MN, ng	1MN, ng	BIP, ng	DMN, ng	ACL, ng	ACT, ng
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	9.00	0.00	268.95	4.18	2.26	0.75
PR PES DISS 3ORG	3	0.13	2.09	1741.39	4.61	1.33	0.33
PR PES DISS 4ORG	4	0.00	0.00	907.52	5.15	2.51	0.67
PR PES DISS 5ORG	5	0.00	0.00	2802.10	4.53	1.00	0.51
Data not corrected for blanks							
PR PES Dissolved	Dynes/cm ²	2MN, ng/L	1MN, ng/L	BIP, ng/L	DMN, ng/L	ACL, ng/L	ACT, ng/L
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	0.00	0.00	1344.75	20.90	11.30	3.75
PR PES DISS 3ORG	3	0.65	10.45	8706.95	23.05	6.65	1.65
PR PES DISS 4ORG	4	0.00	0.00	4537.60	25.75	12.55	3.35
PR PES DISS 5ORG	5	0.00	0.00	17513.13	28.31	6.25	3.19

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	TMN, ng	FLU, ng	PHE, ng	ANT, ng	IMP, ng	FLA, ng
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	2.52	2.42	0.00	0.00	0.00	0.00
PR PES DISS 3ORG	3	2.85	4.28	0.00	0.00	0.00	0.00
PR PES DISS 4ORG	4	2.41	2.42	1.60	0.00	0.00	0.00
PR PES DISS 5ORG	5	2.53	2.83	0.00	0.00	0.00	0.00
Data not corrected for blanks							
PR PES Dissolved	Dynes/cm^2	TMN, ng/L	FLU, ng/L	PHE, ng/L	ANT, ng/L	IMP, ng/L	FLA, ng/L
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	12.60	12.10	0.00	0.00	0.00	0.00
PR PES DISS 3ORG	3	14.25	21.40	0.00	0.00	0.00	0.00
PR PES DISS 4ORG	4	12.05	12.10	8.00	0.00	0.00	0.00
PR PES DISS 5ORG	5	15.81	17.69	0.00	0.00	0.00	0.00

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm^2	PYR, ng	BAA, ng	CHR, ng	BBF, ng	BKF, ng	BEP, ng
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	0.00	2.85	0.00	7.11	0.00	0.90
PR PES DISS 3ORG	3	0.00	2.90	0.00	7.69	0.00	1.14
PR PES DISS 4ORG	4	0.00	2.86	0.00	7.66	0.00	0.92
PR PES DISS 5ORG	5	0.00	2.88	0.00	7.82	0.00	1.09
Data not corrected for blanks							
PR PES Dissolved	Dynes/cm^2	PYR, ng/L	BAA, ng/L	CHR, ng/L	BBF, ng/L	BKF, ng/L	BEP, ng/L
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	0.00	14.25	0.00	38.60	0.00	4.50
PR PES DISS 3ORG	3	0.00	14.50	0.00	38.45	0.00	5.70
PR PES DISS 4ORG	4	0.00	14.30	0.00	38.30	0.00	4.60
PR PES DISS 5ORG	5	0.00	18.00	0.00	48.88	0.00	6.81

Appendix 7: Dissolved Phase Organics

PR PES Dissolved	Dynes/cm ²	BAP, ng	PER, ng	INP, ng	DBA, ng	BPE, ng	Σ PAHs, ng
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	1.62	0.00	9.75	7.53	7.90	821.89
PR PES DISS 3ORG	3	2.16	0.00	9.76	7.52	7.81	2301.20
PR PES DISS 4ORG	4	1.64	0.00	9.71	7.40	7.78	1391.73
PR PES DISS 5ORG	5	1.73	0.00	9.76	7.66	7.81	3184.86
Data not corrected for blanks							
PR PES Dissolved	Dynes/cm ²	BAP, ng/L	PER, ng/L	INP, ng/L	DBA, ng/L	BPE, ng/L	Σ PAHs, ng/L
PR PES DISS 0ORG	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PR PES DISS 2ORG	2	8.10	0.00	48.75	37.65	39.50	4109.45
PR PES DISS 3ORG	3	10.80	0.00	48.80	37.60	39.05	11506.00
PR PES DISS 4ORG	4	8.20	0.00	48.55	37.00	38.90	6958.65
PK PES DISS 5ORG	5	10.81	0.00	61.00	47.88	48.81	19905.38

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	Amt filtered, mL	CB008, ng	CB018, ng	CB029, ng	CB050, ng
RP PES DISS 0ORG	0	100	0.04	0.03	0.03	0.02
RP PES DISS 2ORG	2	200	0.03	0.03	0.03	0.02
RP PES DISS 3ORG	3	200	0.02	0.29	0.02	0.00
RP PES DISS 4ORG	4	200	0.01	0.18	0.01	0.01
RP PES DISS 5ORG*	5	200	0.12	0.12	0.03	3.25
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	Amt filtered, mL	CB008, ng/L	CB018, ng/L	CB029, ng/L	CB050, ng/L
RP PES DISS 0ORG	0	100	0.37	0.31	0.30	0.15
RP PES DISS 2ORG	2	200	0.13	0.13	0.13	0.08
RP PES DISS 3ORG	3	200	0.11	1.45	0.08	0.00
RP PES DISS 4ORG	4	200	0.06	0.91	0.04	0.03
RP PES DISS 5ORG*	5	200	0.62	0.58	0.17	16.25

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm ²	CB028, ng	CB052, ng	CB104, ng	CB044, ng	CB066, ng
RP PES DISS 0ORG	0	0.07	0.06	0.37	0.04	0.08
RP PES DISS 2ORG	2	0.11	0.08	0.52	0.07	0.08
RP PES DISS 3ORG	3	0.12	0.10	0.25	0.09	0.16
RP PES DISS 4ORG	4	0.06	0.06	0.19	0.04	0.09
RP PES DISS 5ORG*	5	2.47	0.76	0.00	1.51	1.99
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm ²	CB028, ng/L	CB052, ng/L	CB104, ng/L	CB044, ng/L	CB066, ng/L
RP PES DISS 0ORG	0	0.67	0.55	3.71	0.41	0.76
RP PES DISS 2ORG	2	0.55	0.39	2.62	0.35	0.38
RP PES DISS 3ORG	3	0.60	0.50	1.24	0.45	0.79
RP PES DISS 4ORG	4	0.31	0.28	0.97	0.18	0.43
RP PES DISS 5ORG*	5	12.35	3.78	0.00	7.57	9.94

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	CB101, ng	CB087, ng	CB077, ng	CB154, ng	CB118, ng
RP PES DISS 0ORG	0	0.06	0.02	0.03	0.01	0.04
RP PES DISS 2ORG	2	0.04	0.02	0.03	0.01	0.05
RP PES DISS 3ORG	3	0.08	0.03	0.06	0.01	0.08
RP PES DISS 4ORG	4	0.04	0.02	0.03	0.01	0.05
RP PES DISS 5ORG*	5	2.04	0.66	0.99	0.26	0.81
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	CB101, ng/L	CB087, ng/L	CB077, ng/L	CB154, ng/L	CB118, ng/L
RP PES DISS 0ORG	0	0.55	0.17	0.28	0.07	0.38
RP PES DISS 2ORG	2	0.22	0.09	0.14	0.04	0.24
RP PES DISS 3ORG	3	0.38	0.16	0.30	0.06	0.41
RP PES DISS 4ORG	4	0.21	0.08	0.16	0.04	0.27
RP PES DISS 5ORG*	5	10.21	3.29	4.53	1.32	4.04

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm ²	CB188, ng	CB153, ng	CB105, ng	CB138, ng	CB126, ng
RP PES DISS 0ORG	0	0.00	0.09	0.03	0.04	0.00
RP PES DISS 2ORG	2	0.00	0.10	0.05	0.03	0.02
RP PES DISS 3ORG	3	0.00	0.12	0.04	0.07	0.00
RP PES DISS 4ORG	4	0.00	0.10	0.03	0.05	0.00
RP PES DISS 5ORG*	5	0.70	1.55	0.40	0.00	0.50
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm ²	CB188, ng/L	CB153, ng/L	CB105, ng/L	CB138, ng/L	CB126, ng/L
RP PES DISS 0ORG	0	0.00	0.85	0.28	0.36	0.00
RP PES DISS 2ORG	2	0.00	0.52	0.23	0.14	0.10
RP PES DISS 3ORG	3	0.00	0.61	0.21	0.36	0.00
RP PES DISS 4ORG	4	0.00	0.50	0.15	0.26	0.00
RP PES DISS 5ORG*	5	3.49	7.76	2.02	0.00	2.50

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	CB187, ng	CB128, ng	CB200, ng	CB180, ng	CB170, ng
RP PES DISS 0ORG	0	0.04	0.04	0.01	0.02	0.42
RP PES DISS 2ORG	2	0.03	0.02	0.01	0.03	0.49
RP PES DISS 3ORG	3	0.02	0.01	0.02	0.05	0.40
RP PES DISS 4ORG	4	0.04	0.01	0.01	0.05	0.66
RP PES DISS 5ORG*	5	0.00	0.00	0.80	0.00	0.00
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	CB187, ng/L	CB128, ng/L	CB200, ng/L	CB180, ng/L	CB170, ng/L
RP PES DISS 0ORG	0	0.36	0.44	0.09	0.25	4.24
RP PES DISS 2ORG	2	0.14	0.08	0.07	0.13	2.45
RP PES DISS 3ORG	3	0.11	0.07	0.08	0.23	1.99
RP PES DISS 4ORG	4	0.22	0.04	0.06	0.23	3.32
RP PES DISS 5ORG*	5	0.00	0.00	4.01	0.06	0.00

*FCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	CB195, ng	CB206, ng	CB209, ng	CB sum, ng	HCB, ng
RP PES DISS 0ORG	0	0.06	0.29	0.05	1.95	0.01
RP PES DISS 2ORG	2	0.03	0.25	0.15	2.31	0.01
RP PES DISS 3ORG	3	0.04	0.02	0.05	2.15	0.01
RP PES DISS 4ORG	4	0.25	0.92	0.28	3.20	0.00
RP PES DISS 5ORG*	5	0.00	0.00	0.00	18.96	0.03
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	CB195, ng/L	CB206, ng/L	CB209, ng/L	CB sum, ng/L	HCB, ng/L
RP PES DISS 0ORG	0	0.61	2.92	0.46	19.53	0.11
RP PES DISS 2ORG	2	0.17	1.26	0.76	11.55	0.05
RP PES DISS 3ORG	3	0.21	0.09	0.26	10.74	0.05
RP PES DISS 4ORG	4	1.23	4.61	1.41	16.00	0.02
RP PES DISS 5ORG*	5	0.00	0.00	0.00	94.82	0.15

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	HEPT, ng	ALDRIN, ng	OP'DDE, ng	DIELDRIN, ng	PP'DDE, ng
RP PES DISS 0ORG	0	0.02	0.11	0.05	0.01	0.00
RP PES DISS 2ORG	2	0.03	0.10	0.04	0.01	0.01
RP PES DISS 3ORG	3	0.04	0.05	0.05	0.01	0.02
RP PES DISS 4ORG	4	0.02	0.06	0.03	0.01	0.02
RP PES DISS 5ORG*	5	0.00	0.00	1.96	0.25	0.00
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	HEPT, ng/L	ALDRIN, ng/L	OP'DDE, ng/L	DIELDRIN, ng/L	PP'DDE, ng/L
RP PES DISS 0ORG	0	0.24	1.13	0.52	0.06	0.00
RP PES DISS 2ORG	2	0.17	0.50	0.20	0.04	0.06
RP PES DISS 3ORG	3	0.20	0.25	0.26	0.06	0.09
RP PES DISS 4ORG	4	0.12	0.28	0.14	0.03	0.08
RP PES DISS 5ORG*	5	0.00	0.00	9.80	1.27	0.00

*PCBs -> Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	OP'DDD, ng	PP'DDD, ng	OP'DDT, ng	MIREX, ng	NAP, ng
RP PES DISS 0ORG	0	0.00	0.00	0.00	0.94	788.72
RP PES DISS 2ORG	2	0.00	0.00	0.00	0.00	1005.02
RP PES DISS 3ORG	3	0.00	0.00	0.00	1.94	884.12
RP PES DISS 4ORG	4	0.00	0.05	0.01	0.48	888.84
RP PES DISS 5ORG*	5	0.00	0.20	0.00	0.00	N.A.
Data not corrected for blanks						
RP PES Dissolved	Dynes/cm^2	OP'DDD, ng/L	PP'DDD, ng/L	OP'DDT, ng/L	MIREX, ng/L	NAP, ng/L
RP PES DISS 0ORG	0	0.00	0.03	0.00	9.38	7887.20
RP PES DISS 2ORG	2	0.00	0.00	0.00	0.00	5025.12
RP PES DISS 3ORG	3	0.00	0.00	0.00	9.69	4420.60
RP PES DISS 4ORG	4	0.00	0.27	0.07	2.42	4444.20
RP PES DISS 5ORG*	5	0.00	1.02	0.00	0.00	N.A.

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm ²	2MN, ng	1MN, ng	BIP, ng	DMN, ng	ACL, ng	ACT, ng
RP PES DISS 0ORG	0	1.75	0.39	893.23	4.66	2.27	0.66
RP PES DISS 2ORG	2	0.11	0.00	3021.02	5.05	1.97	0.77
RP PES DISS 3ORG	3	0.25	0.00	1363.26	4.50	1.42	1.13
RP PES DISS 4ORG	4	0.07	0.00	1994.39	5.51	2.18	0.25
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Data not corrected for blanks							
RP PES Dissolved	Dynes/cm ²	2MN, ng/L	1MN, ng/L	BIP, ng/L	DMN, ng/L	ACL, ng/L	ACT, ng/L
RP PES DISS 0ORG	0	17.50	3.90	8932.30	46.60	22.70	6.60
RP PES DISS 2ORG	2	0.55	0.00	15105.12	25.24	9.87	3.85
RP PES DISS 3ORG	3	1.25	0.00	6816.30	22.50	7.10	5.65
RP PES DISS 4ORG	4	0.34	0.00	9971.97	27.53	10.88	1.27
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	TMN, ng	FLU, ng	PHE, ng	ANT, ng	1MP, ng	FLA, ng
RP PES DISS 0ORG	0	2.78	3.79	0.00	0.00	0.00	0.00
RP PES DISS 2ORG	2	3.26	3.33	0.00	0.00	0.00	0.00
RP PES DISS 3ORG	3	2.99	3.23	0.00	0.00	2.69	0.00
RP PES DISS 4ORG	4	2.48	2.83	0.03	0.00	0.00	0.00
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Data not corrected for blanks							
RP PES Dissolved	Dynes/cm^2	TMN, ng/L	FLU, ng/L	PHE, ng/L	ANT, ng/L	1MP, ng/L	FLA, ng/L
RP PES DISS 0ORG	0	27.80	37.90	0.00	0.00	0.00	0.00
RP PES DISS 2ORG	2	16.29	16.65	0.00	0.00	0.00	0.00
RP PES DISS 3ORG	3	14.95	16.15	0.00	0.00	13.45	0.00
RP PES DISS 4ORG	4	12.42	14.17	0.17	0.00	0.00	0.00
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

*PCBs->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	PYR, ng	BAA, ng	CHR, ng	BBF, ng	BKF, ng	BEP, ng
RP PES DISS 0ORG	0	0.00	2.78	0.00	7.81	0.00	0.98
RP PES DISS 2ORG	2	0.00	2.78	0.00	8.34	0.00	1.25
RP PES DISS 3ORG	3	0.00	2.88	0.00	7.90	0.00	1.06
RP PES DISS 4ORG	4	0.00	2.78	0.00	7.83	0.00	0.97
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Data not corrected for blanks							
RP PES Dissolved	Dynes/cm^2	PYR, ng/L	BAA, ng/L	CHR, ng/L	BBF, ng/L	BKF, ng/L	BEP, ng/L
RP PES DISS 0ORG	0	0.00	27.80	0.00	78.10	0.00	9.80
RP PES DISS 2ORG	2	0.00	13.90	0.00	41.69	0.00	6.25
RP PES DISS 3ORG	3	0.00	14.40	0.00	39.50	0.00	5.30
RP PES DISS 4ORG	4	0.00	13.90	0.00	39.14	0.00	4.86
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

*PCBs ->Contaminated?

Appendix 7: Dissolved Phase Organics

RP PES Dissolved	Dynes/cm^2	BAP, ng	PER, ng	INP, ng	DBA, ng	BPE, ng	Σ PAHs, ng
RP PES DISS 0ORG	0	2.31	0.00	9.71	7.40	7.74	1736.98
RP PES DISS 2ORG	2	1.52	0.00	9.71	7.40	7.74	4079.28
RP PES DISS 3ORG	3	1.62	0.00	9.87	7.96	8.09	2302.97
RP PES DISS 4ORG	4	1.44	0.00	9.71	7.40	7.74	2934.47
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Data not corrected for blanks							
RP PES Dissolved	Dynes/cm^2	PAF, ng/L	PER, ng/L	INP, ng/L	DBA, ng/L	BPE, ng/L	Σ PAHs, ng/L
RP PES DISS 0ORG	0	23.10	0.00	97.10	74.00	77.40	17369.80
RP PES DISS 2ORG	2	7.11	0.00	48.55	37.01	38.68	20396.41
RP PES DISS 3ORG	3	8.11	0.00	49.35	39.80	40.45	11514.85
RP PES DISS 4ORG	4	7.22	0.00	48.55	37.01	38.68	14672.33
RP PES DISS 5ORG*	5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

*PCBs->Contaminated?

APPENDIX 8. BLANK DATA

Appendix 8: Blank Data

PES BLANKS	Speciation	Filter#	CB008, ng	CB018, ng	CB029, ng
I SW Blk 0.1202 g	P	-	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	-	0.00	0.00	0.00
FSW Blk 4/27/92	P	86	0.09	0.02	0.00
Dry F Blk 4/30	P	22	N.A.	N.A.	N.A.
PES Blk 4/27	P	76	N.A.	N.A.	N.A.
FSW 4/23	P	69	N.A.	N.A.	N.A.
FSW 4/24	P	75	N.A.	N.A.	N.A.
FSW 4/22	P	63	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	57	N.A.	N.A.	N.A.
SW Blk 4/3	P	49	N.A.	N.A.	N.A.
SW Blk 4/3	P	50	N.A.	N.A.	N.A.
SW Blk 4/1	P	33	N.A.	N.A.	N.A.
FSW Blk 4/20	P	54	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	-	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	-	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	-	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	-	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	58	0.00	0.36	0.11
FSW Blk 4/23/92	P	74	0.08	0.00	0.12
PES Blk 4/27/92	P	85	0.16	0.08	0.00
Filter SW B1 11/91	P	-	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	-	N.A.	N.A.	N.A.
Average			0.06	0.08	0.04
St. Dev.			0.07	0.14	0.06
RSD %			120%	186%	155%
n			6	6	6
Proc. Particulate 5/92	P	-	0.00	0.00	1.24
Proc. Particulate	P	10	0.07	0.05	0.00
Proc. Particulate 8/92	P	-	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	104	0.15	0.04	0.08
Proc Blk 1992	P	32	0.04	0.03	0.06
Proc Blk 4/27/92	P	87	0.12	0.02	0.04
Average			0.08	0.03	0.28
St. Dev.			0.06	0.02	0.54
RSD %			79%	69%	189%
n			5	5	5
PES Dissolved SW 2/26/92	D	-	N.A.	N.A.	N.A.
PES SW BLK -D	D	-	0.00	0.00	0.00
PES FSW BLK SQ BOT	D	-	0.00	0.09	0.00
PES BLK FSW A+B	D	-	0.05	0.23	0.00
Average			0.02	0.11	0.00
St. Dev.			0.03	0.12	0.00
RSD %			173%	109%	#DIV/0!
n			3	3	3

N.A. = Not Available

PES BLANKS	Speciation	CB050, ng	CB028, ng	CB052, ng
I SW Blk 0.1202 g	P	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.03	0.14	0.07
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	0.26	0.28	0.59
FSW Blk 4/23/92	P	0.14	0.19	0.62
PES Blk 4/27/92	P	0.10	0.45	0.20
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.09	0.18	0.25
St. Dev.		0.10	0.17	0.29
RSD %		115%	98%	116%
n		6	6	6
Proc. Particulate 5/92	P	1.23	1.48	0.23
Proc. Particulate	P	0.09	0.07	0.05
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.05	0.18	0.10
Proc Blk 1992	P	0.03	0.08	0.05
Proc Blk 4/27/92	P	0.03	0.14	0.10
Average		0.29	0.39	0.11
St. Dev.		0.53	0.61	0.07
RSD %		185%	157%	71%
n		5	5	5
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.08	0.07	0.00
PES FSW BLK SQ BOT	D	0.01	0.06	0.06
PES BLK FSW A+B	D	0.12	0.22	0.07
Average		0.07	0.12	0.04
St. Dev.		0.06	0.09	0.04
RSD %		84%	78%	89%
n		3	3	3

N.A. = Not Available

PES BLANKS	Speciation	CB104, ng	CB044, ng	CB066, ng
I SW Blk 0.1202 g	P	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.08	0.02	0.19
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.	0.14
FSW Blk 4/23/92	P	0.00	0.95	0.00
PES Blk 4/27/92	P	0.00	0.20	0.20
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.02	0.23	0.09
St. Dev.		0.04	0.41	0.19
RSD %		224%	175%	112%
n		5	5	6
Proc. Particulate 5/92	P	0.00	0.20	0.43
Proc. Particulate	P	0.00	0.04	0.03
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.29	0.04	0.30
Proc Blk 1992	P	0.00	0.17	0.05
Proc Blk 4/27/92	P	0.38	0.02	0.26
Average		0.13	0.09	0.21
St. Dev.		0.19	0.08	0.17
RSD %		139%	90%	80%
n		5	5	5
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.00	0.00	0.02
PES FSW BLK SQ BOT	D	0.13	0.01	0.11
PES BLK FSW A+B	D	0.26	0.08	0.05
Average		0.13	0.03	0.06
St. Dev.		0.13	0.04	0.05
RSD %		100%	142%	76%
n		3	3	3

N.A. = Not Available

PES BLANKS	Speciation	CB101, ng	CB087, ng	CB077, ng
I SW Blk 0.1202 g	P	0.14	0.00	0.00
M Sw Blk 0.1218 g	P	0.22	0.00	0.00
FSW Blk 4/27/92	P	0.16	0.09	0.10
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.03	N.A.	N.A.
EPA filtered SW 2/26/92	P	0.10	N.A.	N.A.
PES Blk FB3 2/26/92	P	0.11	N.A.	N.A.
PES Blk FB4 2/26/92	P	0.09	N.A.	N.A.
PES Blk 4/20/92	P	0.32	0.32	0.43
FSW Blk 4/23/92	P	0.23	0.10	0.00
PES Blk 4/27/92	P	0.29	0.12	0.00
Filter SW B1 11/91	P	0.12	N.A.	N.A.
Filter SW B2 11/91	P	0.14	N.A.	N.A.
Average		0.16	0.11	0.09
St. Dev.		0.09	0.12	0.17
RSD %		53%	112%	195%
n		12	6	6
Proc. Particulate 5/92	P	0.45	0.24	0.82
Proc. Particulate	P	0.07	0.02	0.01
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.24	0.13	0.14
Proc Blk 1992	P	0.08	0.04	0.02
Proc Blk 4/27/92	P	0.20	0.12	0.12
Average		0.21	0.11	0.22
St. Dev.		0.15	0.09	0.34
RSD %		74%	79%	153%
n		5	5	5
PES Dissolved SW 2/26/92	D	0.06	N.A.	N.A.
PES SW BLK -D	D	0.09	0.05	0.00
PES FSW BLK SQ BOT	D	0.06	0.02	0.06
PES BLK SW A+B	D	0.03	0.01	0.02
Average		0.06	0.02	0.03
St. Dev.		0.03	0.02	0.03
RSD %		41%	90%	111%
n		4	3	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	CB154, ng	CB118, ng	CB188, ng
I SW Blk 0.1202 g	P	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	0.00	0.14	0.00
FSW Blk 4/27/92	P	0.02	0.14	0.01
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	0.00	0.40	N.A.
FSW Blk 4/23/92	P	0.00	0.18	N.A.
PES Blk 4/27/92	P	0.00	0.31	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.00	0.20	0.00
St. Dev.		0.01	0.14	0.01
RSD %		245%	72%	173%
n		6	6	3
Proc. Particulate 5/92	P	0.00	0.48	N.A.
Proc. Particulate	P	0.05	0.05	0.01
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.03	0.19	0.01
Proc Blk 1992	P	0.06	0.17	0.02
Proc Blk 4/27/92	P	0.08	0.06	0.03
Average		0.04	0.19	0.02
St. Dev.		0.03	0.17	0.01
RSD %		69%	92%	55%
n		5	5	4
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.00	0.13	0.00
PES FSW BLK SQ BOT	D	0.02	0.10	0.00
PES BLK FSW A+B	D	0.01	0.03	0.00
Average		0.01	0.09	0.00
St. Dev.		0.01	0.05	0.00
RSD %		112%	55%	#DIV/0!
n		3	3	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	CB153, ng	CB105, ng	CB138, ng
I SW Blk 0.1202 g	P	0.20	0.00	0.54
M Sw Blk 0.1218 g	P	0.31	0.00	0.93
FSW Blk 4/27/92	P	0.18	0.07	0.05
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.03	N.A.	0.15
EPA filtered SW 2/26/92	P	0.09	N.A.	0.51
PES Blk FB3 2/26/92	P	0.20	N.A.	0.21
PES Blk FB4 2/26/92	P	0.16	N.A.	0.14
PES Blk 4/20/92	P	0.47	0.00	1.08
FSW Blk 4/23/92	P	0.57	0.54	0.32
PES Blk 4/27/92	P	0.60	0.00	0.51
Filter SW B1 11/91	P	0.08	N.A.	0.16
Filter SW B2 11/91	P	0.17	N.A.	0.14
Average		0.26	0.10	0.40
St. Dev.		0.19	0.22	0.33
RSD %		75%	213%	84%
n		12	6	12
Proc. Particulate 5/92	P	0.89	0.84	1.17
Proc. Particulate	P	0.08	0.04	0.07
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.24	0.06	0.03
Proc Blk 1/92	P	0.09	0.04	0.07
Proc Blk 4/27/92	P	0.12	0.02	0.05
Average		0.28	0.20	0.28
St. Dev.		0.35	0.36	0.50
RSD %		122%	180%	180%
n		5	5	5
PES Dissolved SW 2/26/92	D	0.06	N.A.	0.27
PES SW BLK -D	D	0.15	0.00	0.18
PES FSW BLK SQ BOT	D	0.15	0.03	0.08
PES BLK FSW A+B	D	0.06	0.02	0.02
Average		0.10	0.02	0.14
St. Dev.		0.05	0.02	0.11
RSD %		52%	88%	78%
n		4	3	4

N.A. = Not Available

PES BLANKS	Speciation	CB126, ng	CB187, ng	CB128, ng
I SW Blk 0.1202 g	P	0.00	0.09	0.00
M Sw Blk 0.1218 g	P	0.00	0.14	0.00
FSW Blk 4/27/92	P	0.00	0.05	0.01
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	0.00	0.28	0.00
FSW Blk 4/23/92	P	0.00	0.21	0.06
PES Blk 4/27/92	P	0.00	0.23	0.10
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.00	0.17	0.03
St. Dev.		0.00	0.09	0.04
RSD %		#DIV/0!	53%	149%
n		6	6	6
Proc. Particulate 5/92	P	0.00	0.73	0.26
Proc. Particulate	P	0.01	0.04	0.01
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.00	0.13	0.02
Proc Blk 1992	P	0.05	0.05	0.03
Proc Blk 4/27/92	P	0.00	0.04	0.02
Average		0.01	0.20	0.07
St. Dev.		0.02	0.30	0.11
RSD %		181%	151%	161%
n		5	5	5
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.00	0.07	0.00
PES FSW BLK SQ BOT	D	0.05	0.05	0.02
PES BLK FSW A+B	D	0.00	0.01	0.01
Average		0.02	0.04	0.01
St. Dev.		0.03	0.03	0.01
RSD %		173%	63%	116%
n		3	3	3

N.A. = Not Available

PES BLANKS	Speciation	CB200, ng	CB180, ng	CB170, ng
I SW Blk 0.1202 g	P	0.00	0.07	0.52
M Sw Blk 0.1218 g	P	0.00	0.13	0.27
FSW Blk 4/27/92	P	0.04	0.05	0.58
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.04	0.01	0.03
EPA filtered SW 2/26/92	P	0.40	0.04	0.00
PES Blk FB3 2/26/92	P	0.58	0.10	0.09
PES Blk FB4 2/26/92	P	0.95	0.08	0.13
PES Blk 4/20/92	P	0.05	0.22	0.68
FSW Blk 4/23/92	P	0.05	0.19	phthalate
PES Blk 4/27/92	P	0.05	0.17	0.47
Filter SW 31 11/91	P	0.19	0.04	0.05
Filter SW B2 11/91	P	0.34	0.11	0.00
Average		0.22	0.10	0.27
St. Dev.		0.30	0.07	0.27
RSD %		132%	65%	102%
n		12	12	11
Proc. Particulate 5/92	P	0.13	0.46	phthalate
Proc. Particulate	P	0.01	0.04	0.23
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.04	0.10	0.34
Proc Blk 1992	P	0.02	0.05	0.99
Proc Blk 4/27/92	P	0.00	0.11	0.46
Average		0.04	0.15	0.50
St. Dev.		0.05	0.18	0.33
RSD %		131%	116%	66%
n		5	5	4
PES Dissolved SW 2/26/92	D	0.08	0.02	0.05
PES SW BLK -D	D	0.00	0.05	0.04
PES FSW BLK SQ BOT	D	0.01	0.06	0.21
PES BLK FSW A+B	D	0.00	0.03	phthalate
Average		0.02	0.04	0.10
St. Dev.		0.04	0.02	0.09
RSD %		178%	49%	95%
n		4	4	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	CB195, ng	CB206, ng	CB209, ng
I SW Blk 0.1202 g	P	0.11	0.41	0.03
M Sw Blk 0.1218 g	P	0.16	0.36	0.00
FSW Blk 4/27/92	P	0.07	0.30	0.05
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.02	N.A.	0.01
EPA filtered SW 2/26/92	P	0.10	N.A.	0.03
PES Blk FB3 2/26/92	P	0.20	N.A.	0.27
PES Blk FB4 2/26/92	P	0.22	N.A.	0.05
PES Blk 4/20/92	P	0.27	0.66	0.00
FSW Blk 4/23/92	P	0.30	0.65	0.08
PES Blk 4/27/92	P	0.21	0.50	0.00
Filter SW B1 11/91	P	0.07	N.A.	0.04
Filter SW B2 11/91	P	0.11	N.A.	0.07
Average		0.15	0.48	0.05
St. Dev.		0.09	0.15	0.07
RSD %		57%	31%	140%
n		12	6	12
Proc. Particulate 5/92	P	1.00	2.51	0.48
Proc. Particulate	P	0.05	0.11	0.02
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	0.31	0.73	0.19
Proc Blk 1992	P	0.06	0.09	0.03
Proc Blk 4/27/92	P	0.10	0.46	0.23
Average		0.30	0.78	0.19
St. Dev.		0.40	1.00	0.19
RSD %		133%	129%	99%
n		5	5	5
PES Dissolved SW 2/26/92	D	0.03	N.A.	0.36
PES SW BLK -D	D	0.09	0.26	0.04
PES FSW BLK SQ BOT	D	0.04	0.19	0.19
PES BLK FSW A+B	D	0.03	0.40	0.29
Average		0.05	0.28	0.22
St. Dev.		0.03	0.11	0.14
RSD %		66%	38%	63%
n		4	3	4

N.A. = Not Available

PES BLANKS	Speciation	CB sum, ng	Σ PCB, ng	HCB, ng
I SW Blk 0.1202 g	P	2.22	8.91	0.00
M SW Blk 0.1218 g	P	2.67	9.47	0.00
I SW Blk 4/27/92	P	2.61	2.03	0.04
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.32	N/D	N.A.
EPA filtered SW 2/26/92	P	1.27	N/D	N.A.
PES Blk FB3 2/26/92	P	1.76	N/D	N.A.
PES Blk FB4 2/26/92	P	1.82	N/D	N.A.
PES Blk 4/20/92	P	6.92	12.00	N.A.
FSW Blk 4/23/92	P	5.58	7.00	N.A.
PES Blk 4/27/92	P	4.95	8.00	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		3.01	7.90	0.01
St. Dev.		2.10	3.33	0.02
RSD %		70%	42%	173%
n		10	6	3
Proc. Particulate 5/92	P	15.27	21.00	N.A.
Proc. Particulate	P	1.32	2.79	0.03
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	4.16	4.14	N.A.
Proc Blk 1992	P	2.42	3.13	0.11
Proc Blk 4/27/92	P	3.33	2.84	0.03
Average		5.30	6.78	0.06
St. Dev.		5.67	7.97	0.04
RSD %		107%	118%	79%
n		5	5	3
PES Dissolved SW 2/26/92	D	0.93	N/D	N.A.
PES SW BLK -D	D	1.32	5.07	0.00
PES FSW BLK SQ BOT	D	1.78	N/D	0.05
PES BLK FSW A+B	D	2.04	N/D	0.02
Average		1.52	5.07	0.02
St. Dev.		0.49	#DIV/0!	0.03
RSD %		32%	#DIV/0!	118%
n		4	1	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANK 3	Speciation	HEPT, ng	ALDRIN, ng	OP'DDE, ng
ISW Blk 0.1202 g	P	0.00	0.00	0.00
MSW Blk 0.1218 g	P	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.00	0.14	0.11
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	N.A.	N.A.	N.A.
PES Blk 4/27/92	P	N.A.	N.A.	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.00	0.05	0.04
St. Dev.		0.00	0.08	0.06
RSD %		#DIV/0!	173%	173%
n		3	3	3
Proc. Particulate 5/92	P	N.A.	N.A.	N.A.
Proc. Particulate	P	0.00	0.00	0.04
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	N.A.	N.A.	N.A.
Proc Blk 1992	P	0.02	0.00	0.00
Proc Blk 4/27/92	P	0.00	0.15	0.00
Average		0.01	0.05	0.01
St. Dev.		0.01	0.09	0.02
RSD %		173%	173%	173%
n		3	3	3
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.00	0.00	0.00
PES FSW BLK SQ BOT	D	0.01	N.A.	0.03
PES BLK FSW A+B	D	0.12	0.46	0.02
Average		0.04	0.23	0.02
St. Dev.		0.06	0.33	0.01
RSD %		150%	141%	90%
n		3	2	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	DIELDRIN, ng	PP'DDE, ng	OP'DDD, ng
I SW Blk 0.1202 g	P	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.09	0.08	0.00
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	N.A.	N.A.	N.A.
PES Blk 4/27/92	P	N.A.	N.A.	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.03	0.03	0.00
St. Dev.		0.05	0.05	0.00
RSD %		173%	173%	#DIV/0!
n		3	3	3
Proc. Particulate 5/92	P	N.A.	N.A.	N.A.
Proc. Particulate	P	0.07	0.04	0.05
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	N.A.	N.A.	N.A.
Proc Blk 1992	P	0.02	0.00	0.06
Proc Blk 4/27/92	P	0.13	0.11	0.00
Average		0.07	0.05	0.04
St. Dev.		0.06	0.06	0.03
RSD %		75%	111%	88%
n		3	3	3
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.15	0.00	0.00
PES FSW BLK SQ BOT	D	0.02	0.08	0.00
PES BLK FSW A+B	D	0.03	0.02	0.00
Average		0.07	0.04	0.00
St. Dev.		0.07	0.04	0.00
RSD %		112%	125%	#DIV/0!
n		3	3	3

N.A. = Not Available

PES BLANKS	Speciation	PP'DDD, ng	OP'DDT, ng	MIREX, ng
I SW Blk 0.1202 g	P	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.00	0.00	0.12
Dry F Blk 4/30	P	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	N.A.	N.A.	N.A.
PES Blk 4/27/92	P	N.A.	N.A.	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		0.00	0.00	0.04
St. Dev.		0.00	0.00	0.07
RSD %		#DIV/0!	#DIV/0!	173%
n		3	3	3
Proc. Particulate 5/92	P	N.A.	N.A.	N.A.
Proc. Particulate	P	0.06	0.03	0.01
Proc. Particulate 8/92	P	N.A.	N.A.	N.A.
Proc Blk 4/30/92	P	N.A.	N.A.	N.A.
Proc Blk 1992	P	0.00	0.00	0.00
Proc Blk 4/27/92	P	0.00	0.00	0.10
Average		0.02	0.01	0.04
St. Dev.		0.03	0.02	0.06
RSD %		173%	173%	150%
n		3	3	3
PES Dissolved SW 2/26/92	D	N.A.	N.A.	N.A.
PES SW BLK -D	D	0.00	0.00	0.00
PES FSW BLK SQ BOT	D	0.00	0.00	0.37
PES BLK FSW A+B	D	0.00	0.00	0.47
Average		0.00	0.00	0.28
St. Dev.		0.00	0.00	0.25
RSD %		#DIV/0!	#DIV/0!	38%
n		3	3	3

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	NAP, ng	2MN, ng	1MN, ng	BIP, ng
I SW Blk 0.1202 g	P	7.13	1.60	0.00	1.39
M Sw Blk 0.1218 g	P	14.22	5.32	2.18	0.00
FSW Blk 4/27/92	P	4.61	0.00	1.37	2.30
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	6.5	1.8	1.6	0.0
PES Blk 4/27/92	P	13.0	30.7	24.7	9.1
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		5.05	4.38	3.31	1.42
St. Dev.		5.66	10.02	8.06	3.00
RSD %		112%	229%	243%	211%
n		9	9	9	9
Proc. Particulate 5/92	P	6.6	0.0	0.0	5.6
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	37.2	1.7	1.6	0.0
Proc Blk 4/30/92	P	1.09	2.08	0.00	0.00
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	6.64	2.56	0.00	1.75
Average		12.88	1.58	0.40	1.84
St. Dev.		16.41	1.11	0.81	2.64
RSD %		127%	71%	200%	144%
n		4	4	4	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. = Not Available

PES BLANKS	Speciation	DMN, ng	ACL, ng	ACT, ng	TMN, ng
I SW Blk 0.1202 g	P	1.29	0.00	1.58	0.90
M Sw Blk 0.1218 g	P	24.74	0.00	0.00	0.00
FSW Blk 4/27/92	P	1.70	0.00	0.00	0.68
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	F	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	0.0	0.0	0.0	4.7
PES Blk 4/27/92	P	8.8	12.8	32.4	16.3
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		4.06	1.42	3.78	2.51
St. Dev.		8.26	4.27	10.75	5.39
RSD %		204%	300%	285%	215%
n		9	9	9	9
Proc. Particulate 5/92	P	2.5	0.0	0.0	8.3
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	2.0	0.0	0.0	9.2
Proc Blk 4/30/92	P	1.68	0.37	0.59	0.00
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	0.00	0.00	0.00	0.77
Average		1.55	0.09	0.15	4.55
St. Dev.		1.09	0.19	0.29	4.84
RSD %		70%	200%	200%	106%
n		4	4	4	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	FLU, ng	PHE, ng	ANT, ng	IMP, ng
I SW Blk 0.1202 g	P	0.00	2.43	1.38	1.03
M Sw Blk 0.1218 g	P	0.95	0.75	4.42	0.00
FSW Blk 4/27/92	P	0.00	1.38	0.53	0.53
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	0.0	4.3	0.0	0.0
PES Blk 4/27/92	P	0.2	4.6	0.5	0.3
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		0.13	1.50	0.76	0.21
St. Dev.		0.32	1.87	1.45	0.36
RSD %		247%	125%	191%	175%
n		9	9	9	9
Proc. Particulate 5/92	P	0.0	6.6		0.0
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	0.0	0.0	0.0	0.0
Proc Blk 4/30/92	P	0.00	1.29	0.52	0.59
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	0.00	0.46	0.00	0.00
Average		0.00	2.09	0.17	0.15
St. Dev.		0.00	3.05	0.30	0.29
RSD %		#DIV/0!	146%	173%	200%
n		4	4	3	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	FLA, ng	PYR, ng	BAA, ng	CHR, ng
I SW Blk 0.1202 g	P	2.11	1.02	0.00	0.00
M Sw Blk 0.1218 g	P	0.60	0.00	0.00	0.00
FSW Blk 4/27/92	P	0.00	0.68	0.00	0.00
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	0.0	0.0	0.0	0.0
PES Blk 4/27/92	P	1.1	1.5	0.2	0.4
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		0.42	0.36	0.02	0.04
St. Dev.		0.74	0.57	0.07	0.13
RSD %		175%	161%	300%	300%
n		9	9	9	9
Proc. Particulate 5/92	P	0.0	0.0	0.0	0.0
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	F	12.2	20.4	0.0	0.0
Proc Blk 4/30/92	P	0.73	0.00	0.00	0.00
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	0.00	0.00	0.00	0.00
Average		3.23	5.10	0.00	0.00
St. Dev.		5.99	10.20	0.00	0.00
RSD %		185%	200%	#DIV/0!	#DIV/0!
n		4	4	4	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	BBF, ng	BKF, ng	BEP, ng	BAP, ng
I SW Blk 0.1202 g	P	17.46	12.62	38.51	12.65
M Sw Blk 0.1218 g	P	17.86	34.52	19.37	13.47
FSW Blk 4/27/92	P	7.79	2.86	2.05	3.46
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	0.0	0.0	0.0	0.0
PES Blk 4/27/92	P	0.4	0.8	0.5	0.6
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		4.83	5.64	6.71	3.35
St. Dev.		7.70	11.58	13.49	5.62
RSD %		159%	205%	201%	168%
n		9	9	9	9
Proc. Particulate 5/92	P	0.0	0.0	1.2	1.2
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	28.2	33.1	0.0	0.0
Proc Blk 4/30/92	P	0.00	0.00	0.00	3.13
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	1.58	0.00	0.00	0.00
Average		7.44	8.28	0.30	1.08
St. Dev.		13.86	16.56	0.60	1.48
RSD %		186%	200%	200%	137%
n		4	4	4	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	PER, ng	INP, ng	DBA, ng	BPE, ng
I SW Blk 0.1202 g	P	8.88	0.00	0.00	0.00
M Sw Blk 0.1218 g	P	6.27	0.00	0.00	8.74
FSW Blk 4/27/92	P	2.11	0.00	0.00	3.64
Dry F Blk 4/30	P	N.A.	N.A.	N.A.	N.A.
PES Blk 4/27	P	N.A.	N.A.	N.A.	N.A.
FSW 4/23	P	N.A.	N.A.	N.A.	N.A.
FSW 4/24	P	N.A.	N.A.	N.A.	N.A.
FSW 4/22	P	N.A.	N.A.	N.A.	N.A.
Dry F Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/3	P	N.A.	N.A.	N.A.	N.A.
SW Blk 4/1	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/20	P	N.A.	N.A.	N.A.	N.A.
EPA unfiltered SW 2/26/92	D+P	0.0	0.0	0.0	0.0
EPA filtered SW 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB3 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk FB4 2/26/92	P	0.0	0.0	0.0	0.0
PES Blk 4/20/92	P	N.A.	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	0.0	0.0	4.8	0.0
PES Blk 4/27/92	P	0.4	0.3	0.9	0.7
Filter SW B1 11/91	P	N.A.	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.	N.A.
Average		1.96	0.03	0.64	1.45
St. Dev.		3.32	0.10	1.60	2.98
RSD %		169%	300%	251%	205%
n		9	9	9	9
Proc. Particulate 5/92	P	2.6	0.0	12.6	0.0
Proc. Particulate	P	N.A.	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	0.0	0.0	140.6	0.0
Proc Blk 4/30/92	P	1.89	0.00	0.00	0.00
Proc Blk 1992	P	N.A.	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	0.00	0.00	2.29	0.00
Average		1.12	0.00	38.87	0.00
St. Dev.		1.33	0.00	68.04	0.00
RSD %		118%	#DIV/0!	175%	#DIV/0!
n		4	4	4	4
PES Dissolved SW 2/26/92	D	0.0	0.0	0.0	0.0
PES SW BLK -D	D	LOST	LOST	LOST	LOST
PES FSW BLK SQ BOT	D	LOST	LOST	LOST	LOST
PES BLK FSW A+B	D	LOST	LOST	LOST	LOST
Average		0.00	0.00	0.00	0.00
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
n		1	1	1	1

N.A. - Not Available

PES BLANKS	Speciation	Σ PAHs, ng	CHN Vol filt, ml	C, mg
I SW Blk 0.1202 g	P	111.98	N.A.	N.A.
M Sw Blk 0.1218 g	P	153.41	N.A.	N.A.
FSW Blk 4/27/92	P	35.69	N.A.	N.A.
Dry F Blk 4/30	P	N.A.	N.D.	0.017
PES Blk 4/27	P	N.A.	N.D.	0.027
FSW 4/23	P	N.A.	N.D.	0.013
FSW 4/24	P	N.A.	N.D.	0.017
FSW 4/22	P	N.A.	N.D.	0.015
Dry F Blk 4/20	P	N.A.	N.D.	0.011
SW Blk 4/3	P	N.A.	30	0.039
SW Blk 4/3	P	N.A.	30	0.020
SW Blk 4/1	P	N.A.	60	0.012
FSW Blk 4/20	P	N.A.	30	0.015
EPA unfiltered SW 2/26/92	D+P	0.0	N.A.	N.A.
EPA filtered SW 2/26/92	P	0.0	N.A.	N.A.
PES Blk FB3 2/26/92	P	0.0	N.A.	N.A.
PES Blk FB4 2/26/92	P	0.0	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.	N.A.
FSW Blk 4/23/92	P	23.7	N.A.	N.A.
PES Blk 4/27/92	P	161.2	N.A.	N.A.
Filter SW B1 11/91	P	N.A.	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.	N.A.
Average		54.00	37.50	0.02
St. Dev.		68.60	15.00	0.01
RSD %		127%	40%	46%
n		9	4	10
Proc. Particulate 5/92	P	47.2	N.A.	N.A.
Proc. Particulate	P	N.A.	N.A.	N.A.
Proc. Particulate 8/92	P	286.2	N.A.	N.A.
Proc Blk 4/30/92	P	13.98	N.A.	N.A.
Proc Blk 1992	P	N.A.	N.A.	N.A.
Proc Blk 4/27/92	P	16.05	N.D.	0.012
Average		90.84	#DIV/0!	0.01
St. Dev.		131.09	#DIV/0!	#DIV/0!
RSD %		144%	#DIV/0!	#DIV/0!
n		4	0	1
PES Dissolved SW 2/26/92	D	0.0	N.A.	N.A.
PES SW BLK -D	D	LOST	N.A.	N.A.
PES FSW BLK SQ BOT	D	LOST	N.A.	N.A.
PES BLK FSW A+B	D	LOST	N.A.	N.A.
Average		0.00	#DIV/0!	#DIV/0!
St. Dev.		#DIV/0!	#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!	#DIV/0!
n		1	0	0

N.A. = Not Available

Appendix 8: Blank Data

PES BLANKS	Speciation	H, mg	N, mg
I SW Blk 0.1202 g	P	N.A.	N.A.
M Sw Blk 0.1218 g	P	N.A.	N.A.
FSW Blk 4/27/92	P	N.A.	N.A.
Dry F Blk 4/30	P	0.007	0.005
PES Blk 4/27	P	0.053	0.005
FSW 4/23	P	0.018	0.005
FSW 4/24	P	0.017	0.005
FSW 4/22	P	0.014	0.005
Dry F Blk 4/20	P	0.007	0.005
SW Blk 4/3	P	0.016	0.005
SW Blk 4/3	P	0.021	0.005
SW Blk 4/1	P	0.022	0.005
FSW Blk 4/20	P	0.022	0.005
EPA unfiltered SW 2/26/92	D+P	N.A.	N.A.
EPA filtered SW 2/26/92	P	N.A.	N.A.
PES Blk FB3 2/26/92	P	N.A.	N.A.
PES Blk FB4 2/26/92	P	N.A.	N.A.
PES Blk 4/20/92	P	N.A.	N.A.
FSW Blk 4/23/92	P	N.A.	N.A.
PES Blk 4/27/92	P	N.A.	N.A.
Filter SW B1 11/91	P	N.A.	N.A.
Filter SW B2 11/91	P	N.A.	N.A.
Average		0.02	0.01
St. Dev.		0.01	0.00
RSD %		66%	0%
n		10	10
Proc. Particulate 5/92	P	N.A.	N.A.
Proc. Particulate	P	N.A.	N.A.
Proc. Particulate 8/92	P	N.A.	N.A.
Proc Blk 4/30/92	P	N.A.	N.A.
Proc Blk 1992	P	N.A.	N.A.
Proc Blk 4/27/92	P	0.020	0.005
Average		0.02	0.01
St. Dev.		#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!
n		1	1
PES Dissolved SW 2/26/92	D	N.A.	N.A.
PES SW BLK -D	D	N.A.	N.A.
PES FSW BLK SQ BOT	D	N.A.	N.A.
PES BLK FSW A+B	D	N.A.	N.A.
Average		#DIV/0!	#DIV/0!
St. Dev.		#DIV/0!	#DIV/0!
RSD %		#DIV/0!	#DIV/0!
n		0	0

N.A. = Not Available

APPENDIX 9. CLAM LIPID CLASS (FID-TLC IATROSCAN®)

AND

CONTAMINANT DATA

Appendix 9: Clam Lipid Class and Contaminant Data

RP CLAM1 RP CLAM2 PR-GP CLAM

Rocky Point: 41°41.59'N, 71°20.94'W -- 7 m (too deep received, clams from a nearby shellfisherman)

Providence River (Gaspy Pt): 41°44.58'N, 71°22.44'W -- 4 m water (collected by bullrake)

Lipid Wt, g	0.0745	0.075	0.1025
Wet Wt, g	57.97	71.37	40.64
Dry Wt, g	6.6090	6.9940	9.6720
SE/WE, mg	3.13	0.75	0.10
TG, mg	0.00	0.00	0.10
FFA, mg	16.76	12.98	33.01
ST/DG, mg	6.41	6.45	23.88
MG, mg	4.92	3.00	15.07
PE, mg	17.88	7.95	6.36
PC, mg	8.94	13.43	10.15
PC/SM, mg	16.46	30.45	14.04

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
CB008, ng/g DW	0.40	0.42	0.48
CB018, ng/g DW	0.56	0.41	0.61
CB029, ng/g DW	0.07	0.00	0.10
CB050, ng/g DW	0.00	0.00	0.06
CB028, ng/g DW	3.36	2.66	3.75
CB052, ng/g DW	6.57	4.31	6.47
CB104, ng/g DW	0.00	0.00	0.00
CB044, ng/g DW	2.12	1.50	2.24
CB066, ng/g DW	10.03	6.89	9.80
CB101, ng/g DW	14.16	8.46	11.99
CB087, ng/g DW	2.68	1.65	2.69
CB077, ng/g DW	9.75	6.45	8.42
CB154, ng/g DW	2.90	1.92	0.86
CB118, ng/g DW	9.40	5.86	8.27
CB188, ng/g DW	0.93	0.59	0.74
CB153, ng/g DW	16.01	8.72	13.40
CB105, ng/g DW	2.22	1.62	2.39
CB138, ng/g DW	5.56	3.61	5.53
CB126, ng/g DW	0.00	0.00	0.00
CB187, ng/g DW	7.02	4.42	5.38
CB128, ng/g DW	1.28	1.14	1.30
CB200, ng/g DW	0.42	0.47	0.78
CB180, ng/g DW	5.03	3.10	5.72
CB170, ng/g DW	0.42	contaminated	0.97
CB195, ng/g DW	2.34	1.88	2.28
CB206, ng/g DW	2.95	2.74	2.36
CB209, ng/g DW	3.62	3.11	3.61
CB sum, ng/g DW	109.82	71.94	100.20
HCB, ng/g DW	0.14	0.18	0.23
HEPT, ng/g DW	0.27	0.24	0.42
ALDRIN, ng/g DW	0.00	2.31	0.00
OP'DDE, ng/g DW	6.16	2.47	0.00
DIELDRIN, ng/g DW	2.19	1.37	2.17
PP'DDE, ng/g DW	8.09	4.69	6.54
OP'DDD, ng/g DW	0.00	0.00	0.00
PP'DDD, ng/g DW	0.00	0.00	0.00
OP'DDT, ng/g DW	0.00	0.00	0.00
MIREX, ng/g DW	2.69	6.37	3.30

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
NAP, ng/g DW	0.85	0.00	3.39
2MN, ng/g DW	1.61	0.00	0.00
1MN, ng/g DW	0.83	0.00	0.00
BIP, ng/g DW	0.90	1.26	2.01
DMN, ng/g DW	1.92	1.25	0.71
ACL, ng/g DW	2.46	2.69	3.18
ACT, ng/g DW	0.00	0.00	0.25
TMN, ng/g DW	0.93	1.22	0.98
FLU, ng/g DW	1.92	1.24	1.22
PHE, ng/g DW	4.64	3.20	3.32
ANT, ng/g DW	8.83	5.95	5.05
1MP, ng/g DW	8.76	8.20	0.98
FLA, ng/g DW	61.66	58.29	43.55
FYR, ng/g DW	76.68	63.77	60.48
BAA, ng/g DW	8.49	6.55	9.77
CHR, ng/g DW	25.06	28.07	20.51
BBF, ng/g DW	11.51	12.25	13.56
BKF, ng/g DW	6.83	8.20	21.13
BEP, ng/g DW	25.83	23.77	28.82
BAP, ng/g DW	6.46	10.24	17.43
PER, ng/g DW	66.10	28.84	32.13
INP, ng/g DW	8.87	18.33	14.32
DBA, ng/g DW	3.65	4.49	1.57
BPE, ng/g DW	37.55	29.20	19.73
Σ PAHs, ng/g DW	372.40	326.98	304.08

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
CB008, ng	2.63	2.92	4.67
CB018, ng	3.73	2.89	5.90
CB029, ng	0.47	0.00	0.97
CB050, ng	0.00	0.00	0.56
CB028, ng	22.21	18.60	36.28
CB052, ng	43.45	30.18	62.57
CB104, ng	0.00	0.00	0.00
CB044, ng	14.04	10.47	21.67
CB066, ng	66.31	48.17	94.81
CB101, ng	93.61	59.14	115.98
CB087, ng	17.68	11.56	26.06
CB077, ng	64.46	45.14	81.44
CB154, ng	19.14	13.39	8.29
CB118, ng	62.16	41.00	79.96
CB188, ng	6.15	4.13	7.14
CB153, ng	105.82	61.00	129.62
CB105, ng	14.68	11.30	23.15
CB138, ng	36.77	25.28	53.46
CB126, ng	0.00	0.00	0.00
CB187, ng	46.39	30.94	52.05
CB128, ng	8.47	7.95	12.57
CB200, ng	2.80	3.32	7.55
CB180, ng	33.25	21.70	55.32
CB170, ng	2.76	contaminated	9.34
CB195, ng	15.43	13.12	22.06
CB206, ng	19.52	19.16	22.83
CB209, ng	23.91	21.77	34.88
CB sum, ng	725.82	503.14	969.11
HCB, ng	0.93	1.24	2.19
HEPT, ng	1.77	1.68	4.03
ALDRIN, ng	0.00	16.18	0.00
OP'DDE, ng	40.73	17.25	0.00
DIELDRIN, ng	14.45	9.56	20.98
PP'DDE, ng	53.49	32.79	63.21
OP'DDD, ng	0.00	0.00	0.00
PP'DDD, ng	0.00	0.00	0.00
OP'DDT, ng	0.00	0.00	0.00
MIREX, ng	17.75	44.58	31.87

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
NAP, ng	5.62	0.00	32.76
2MN, ng	10.66	0.00	0.00
1MN, ng	5.48	0.00	0.00
BIP, ng	5.95	8.81	19.41
DMN, ng	12.70	8.73	6.87
ACL, ng	16.26	18.81	30.79
ACT, ng	0.00	0.00	2.38
TMN, ng	6.16	8.52	9.48
FLU, ng	12.68	8.65	11.80
PHE, ng	30.69	22.40	32.09
ANT, ng	58.33	41.59	48.87
1MP, ng	57.90	57.33	9.46
FLA, ng	407.50	407.66	421.19
FYR, ng	506.78	446.04	584.95
BAA, ng	56.13	45.80	94.46
CHR, ng	165.61	196.35	198.39
BBF, ng	76.09	85.65	131.18
BKF, ng	45.13	57.35	204.35
BEP, ng	171.04	166.23	278.71
BAP, ng	42.67	71.63	168.62
PER, ng	436.83	271.63	310.78
INP, ng	58.63	128.22	138.48
DBA, ng	24.15	31.37	15.23
BPE, ng	248.17	204.19	190.83
Σ PAHs, ng	2461.17	2286.93	2941.08

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
CB008, ng/g WW	0.0454	0.0409	0.1149
CB018, ng/g WW	0.0643	0.0405	0.1452
CB029, ng/g WW	0.0082	0.0000	0.0238
CB050, ng/g WW	0.0000	0.0000	0.0139
CB028, ng/g WW	0.3831	0.2607	0.8927
CB052, ng/g WW	0.7495	0.4228	1.5396
CB104, ng/g WW	0.0000	0.0000	0.0000
CB044, ng/g WW	0.2421	0.1468	0.5332
CB066, ng/g WW	1.1438	0.6749	2.3329
CB101, ng/g WW	1.6148	0.8287	2.8538
CB087, ng/g WW	0.3050	0.1620	0.6412
CB077, ng/g WW	1.1119	0.6324	2.0040
CB154, ng/g WW	0.3301	0.1877	0.2041
CB118, ng/g WW	1.0722	0.5745	1.9674
CB188, ng/g WW	0.1061	0.0578	0.1756
CB153, ng/g WW	1.8254	0.8547	3.1894
CB105, ng/g WW	0.2532	0.1583	0.5696
CB138, ng/g WW	0.6343	0.3542	1.3154
CB126, ng/g WW	0.0000	0.0000	0.0000
CB187, ng/g WW	0.8003	0.4335	1.2808
CB128, ng/g WW	0.1462	0.1113	0.3094
CB200, ng/g WW	0.0483	0.0465	0.1857
CB180, ng/g WW	0.5735	0.3041	1.3611
CB170, ng/g WW	0.0476	contaminated	0.2299
CB195, ng/g WW	0.2662	0.1838	0.5428
CB206, ng/g WW	0.3367	0.2684	0.5617
CB209, ng/g WW	0.4124	0.3051	0.8582
CB sum, ng/g WW	12.5207	7.0497	23.8463
HCB, ng/g WW	0.0161	0.0174	0.0538
HEPT, ng/g WW	0.0306	0.0236	0.0992
ALDRIN, ng/g WW	0.0000	0.2267	0.0000
OP'DDE, ng/g WW	0.7025	0.2416	0.0000
DIELDRIN, ng/g WW	0.2493	0.1339	0.5163
PP'DDE, ng/g WW	0.9227	0.4595	1.5554
OP'DDD, ng/g WW	0.0000	0.0000	0.0000
PP'DDD, ng/g WW	0.0000	0.0000	0.0000
OPDDT, ng/g WW	0.0000	0.0000	0.0000
MIREX, ng/g WW	0.3062	0.6247	0.7842

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GF CLAM
NAP, ng/g WW	0.0970	0.0000	0.8060
2MN, ng/g WW	0.1839	0.0000	0.0000
1MN, ng/g WW	0.0945	0.0000	0.0000
BIP, ng/g WW	0.1026	0.1235	0.4777
DMN, ng/g WW	0.2191	0.1223	0.1690
ACL, ng/g WW	0.2806	0.2635	0.7575
ACT, ng/g WW	0.0000	0.0000	0.0586
TMN, ng/g WW	0.1063	0.1194	0.2334
FLU, ng/g WW	0.2187	0.1212	0.2903
PHE, ng/g WW	0.5294	0.3138	0.7897
ANT, ng/g WW	1.0062	0.5827	1.2024
1MP, ng/g WW	0.9988	0.8032	0.2327
FLA, ng/g WW	7.0296	5.7119	10.3639
PYR, ng/g WW	8.7420	6.2497	14.3935
BAA, ng/g WW	0.9683	0.6418	2.3243
CHR, ng/g WW	2.8568	2.7511	4.8817
BBF, ng/g WW	1.3126	1.2000	3.2280
BKF, ng/g WW	0.7786	0.8035	5.0283
BEP, ng/g WW	2.9505	2.3291	6.8580
BAP, ng/g WW	0.7361	1.0036	4.1491
PER, ng/g WW	7.5355	3.8060	7.6471
INP, ng/g WW	1.0113	1.7965	3.4076
DBA, ng/g WW	0.4165	0.4396	0.3748
BPE, ng/g WW	4.2811	2.8610	4.6956
Σ PAHs, ng/g WW	42.4560	32.0433	72.3691

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
CB008, ng/g LW	35.3317	38.9339	45.5599
CB018, ng/g LW	50.0183	38.5642	57.5887
CB029, ng/g LW	6.3500	0.0000	9.4175
CB050, ng/g LW	0.0000	0.0000	5.4921
CB028, ng/g LW	298.0663	248.0417	353.9536
CB052, ng/g LW	583.2354	402.3621	610.4409
CB104, ng/g LW	0.0000	0.0000	0.0000
CB044, ng/g LW	188.3912	139.6531	211.4060
CB066, ng/g LW	890.0253	642.2743	924.9674
CB101, ng/g LW	1256.5190	788.5804	1131.5091
CB087, ng/g LW	237.3378	154.1774	254.2395
CB077, ng/g LW	865.2303	601.8285	794.5419
CB154, ng/g LW	256.8621	178.5856	80.9136
CB118, ng/g LW	834.3190	546.6807	780.0625
CB188, ng/g LW	82.5603	55.0109	69.6307
CB153, ng/g LW	1420.4161	813.3478	1264.5622
CB105, ng/g LW	196.9820	150.6786	225.8210
CB138, ng/g LW	493.5830	337.0971	521.5404
CB126, ng/g LW	0.0000	0.0000	0.0000
CB187, ng/g LW	622.7160	412.4776	507.8144
CB128, ng/g LW	113.7394	105.9571	122.6558
CB200, ng/g LW	37.6050	44.2887	73.6452
CB180, ng/g LW	446.2793	289.3838	539.6617
CB170, ng/g LW	37.0089	contaminated	91.1591
CB195, ng/g LW	207.1437	174.8882	215.1957
CB206, ng/g LW	261.9650	255.4016	222.7059
CB209, ng/g LW	320.9088	290.2974	340.2785
CB sum, ng/g LW	9742.5940	6708.5106	9454.7635
HCB, ng/g LW	12.5354	16.5843	21.3245
HEPT, ng/g LW	23.7760	22.4131	39.3360
ALDRIN, ng/g LW	0.0000	215.6837	0.0000
OP'DDE, ng/g LW	546.6502	229.9362	0.0000
DIELDRIN, ng/g LW	194.0243	127.4015	204.6988
PP'DDE, ng/g LW	717.9585	437.2415	616.6971
OP'DDD, ng/g LW	0.0000	0.0000	0.0000
PP'DDD, ng/g LW	0.0000	0.0000	0.0000
OP'DDT, ng/g LW	0.0000	0.0000	0.0000
PP'DDT, ng/g LW	#REF!	#REF!	#REF!
MIREX, ng/g LW	238.2410	594.4552	310.9299

Appendix 9: Clam Lipid Class and Contaminant Data

	RP CLAM1	RP CLAM2	PR-GP CLAM
NAP, ng/g LW	75.4681	0.0000	319.5680
2MN, ng/g LW	143.1267	0.0000	0.0000
1MN, ng/g LW	73.5616	0.0000	0.0000
BIP, ng/g LW	79.8331	117.5040	189.4060
DMN, ng/g LW	170.4846	116.3635	67.0137
ACL, ng/g LW	218.3137	250.7768	300.3534
ACT, ng/g LW	0.0000	0.0000	23.2299
TMN, ng/g LW	82.7356	113.5929	92.5282
FLU, ng/g LW	170.1626	115.3250	115.1040
PHE, ng/g LW	411.9204	298.6018	313.0879
ANT, ng/g LW	782.9295	554.5308	476.7426
IMP, ng/g LW	777.1675	764.3697	92.2823
FLA, ng/g LW	5469.8531	5435.4115	4109.1417
PYR, ng/g LW	6802.3569	5947.1687	5706.8574
BAA, ng/g LW	753.4269	610.7195	921.5395
CHR, ng/g LW	2222.9427	2617.9412	1935.5413
BBF, ng/g LW	1021.3486	1141.9478	1279.8520
BKF, ng/g LW	605.8109	764.6016	1993.6647
BEP, ng/g LW	2295.8694	2216.3812	2719.1300
BAP, ng/g LW	572.8033	955.0239	1645.0531
PER, ng/g LW	5863.4942	3621.7824	3031.9879
INP, ng/g LW	786.9355	1709.5574	1351.0590
DBA, ng/g LW	324.1246	418.2834	148.5842
BPE, ng/g LW	3331.2031	2722.5553	1861.7541
Σ PAHs, ng/g LW	33035.8727	30492.4384	28693.4809