



WAGENINGEN EVALUATING PROGRAMS FOR
ANALYTICAL LABORATORIES



International Sediment Exchange for Tests on Organic Contaminants



Quarterly Report 2012.1

January - March 2012



WAGENINGEN UNIVERSITY
ENVIRONMENTAL SCIENCES

Introduction

Dear WEPAL-participants,

It is getting more difficult to get samples to different countries. Sometimes shipment is delayed by customs, quarantine services (or other sometimes obscure reasons). For us it is impossible to keep track of all changing regulations. Please contact us if you need special permits or other documents to receive your samples.

Our aim is to have the samples in your possession at the start of each round. Contact us if you do not receive the samples in time. Please do not wait until a few weeks before the deadline because we will not be able to send new samples in time.

Enquiry 2012

We are interested in your ideas and questions about the WEPAL proficiency testing programmes. To make it easier for you to give your response we have placed an enquiry on our website. We have kept it short so it will not take up much of your time. Your feedback is much appreciated.

We decided to remove the section new members from the reports because it could be possible to link new members to Labnumbers or Labcodes. Many laboratories are open with their identity in the labcode while others prefer to hide their identity. Of course this does not mean that laboratories who hide their identity do not trust their own quality. There may be many reasons not to show the identity of a laboratory. Anyway it is not allowed to use the results of the WEPAL proficiency tests for publicity or other promotional activities. Use of the results for scientific purposes is only allowed when approved by WEPAL.

The WEPAL programs are organised to help you to improve the quality of your results. When you have ideas or remarks on the programs that can help us to improve them please feel free to contact us. We are always looking forward to hear from you,

Yours sincerely,



Bram Eijgenraam
Manager WEPAL

Calculated 03-04-2012 (13:50)

Approved by Bram Eijgenraam, manager WEPAL

Important Information

The results of the April - June 2012 period will be processed in the first week of July 2012. Participants are kindly requested to take care that the results of this series are in Wageningen **before the first of July 2012**. All results, which are received later, will not be reported.

The 2012.3 samples will be mailed at the end of May 2012.

Introduction	1
General Information	3
Accreditation	3
Homogeneity of the distributed samples	5
Homogeneity tests	5
Check of results	6
The quarterly report	6
Reporting of data	6
Statistics	6
Normal Distribution Approximation (NDA)	6
Median and MAD	7
Z-score	7
Evaluation of results	7
Uncertainty of the assigned value	8
Rounding of results	8
Materials Analysed	8
Method Indicating Code (MIC)	8
References and related literature	10
Used abbreviations and symbols	11
Analysis SETOC 2012.1	12
Polycyclic aromatic hydrocarbons	13
Polychlorobiphenyls	28
Organochlorine pesticides	37
Other parameters	48
Metals	51
Dibenzo-P Dioxin	57
Dibenzofuran	59
Experimental	62
SETOC 2012.1 Z - Scores	63
Per Participant	64
Errors and Corrections SETOC 2011 Period 4	95

General Information

Accreditation

The Wageningen Evaluating Programmes for Analytical Laboratories organisation is accredited for the organisation of Interlaboratory Studies by the Dutch Accreditation Council RvA since April 26, 2000. The accreditation is based on the ILAC-requirements (Guidelines for the requirements for the competence of providers of proficiency testing schemes, ISO/IEC 17043). In the following table the scope is given for all WEPAL programs.

Table 1 Scope of the WEPAL programs. (Determinands in bold are in the scope of the accreditation)

IPE Group	Determinand
Inorganic Chemical Composition	Ag, As, B, Ba , Be, Bi, Br, Ca, Cd, Cl, Co, Cr , Cs, Cu , F, Fe , Ga, Hg, I, K, Li, Mg, Mn, Mo, N - Kjeldahl , N - NH ₄ (as N), N - NO₃, Na, Ni, P, Pb , Pd, Pt, Rb, Rh, S, Sb, Se, Sn, SO₄, Sr, Ti, V, Zn
Real totals	Al, C - elementary, N - elementary , Si
Acid extractable (So-called totals)	Al , Si
Other determinations	delta ¹³C, delta ¹⁵N
Nutritional values	ADF-ash-containing, ADF-ash-free, Crude fibre, NDF-ash-containing, NDF-ash-free, Polysaccharides (starch), TDF, TDF-non-soluble, TDF-soluble, Total ash , Total Disaccharides, Total fat, Total monosaccharides

ISE Group	Determinand
Real totals	Ag, Al, As, B, Ba , Be, Bi, Br, C - elementary, Ca, Cd, Ce, Co, Cr, Cs, Cu, F, Fe, Ga, Ge, Hg, I, K, La, Li, Mg, Mn, Mo, N - elementary, Na, Nb, Nd, Ni, P, Pb , Pd, Pt, Rb, Rh, S, Sb, Sc, Se, Si, Sn, Sr, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr
Acid extractable (So-called totals)	Ag, Al, As, B, Ba, Be , Bi, Br, Ca, Cd, Ce, Co, Cr, Cu, F, Fe, Ga, Hg, I, K, La, Li, Mg, Mn, Mo, N, Na, Nb, Nd, Ni, P, Pb , Pt, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Te, Th, Ti, Tl, U, V, Y, Zn, Zr
Aqua Regia (ISO 11466)	Ag, Al, As, B, Ba, Be , Bi, Br, Ca, Cd, Ce, Co, Cr, Cu, F, Fe, Ga, Hg, I, K, La, Li, Mg, Mn, Mo, N, Na, Nb, Nd, Ni, P, Pb , Pt, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Te, Th, Ti, Tl, U, V, Y, Zn, Zr
Extraction with boiling 2M HNO ₃	Cd, Co, Cr, Cu, Hg, Mo, Ni, Pb, Tl, Zn
Extraction with 0.1M NaNO ₃	Cd, Cu, Ni, Pb, Zn
Extraction with 0.01M CaCl ₂ 1:10	Al, B, Cd, CN, Co, Cr, Cu, Fe, K, Mg , Mn, N - NH₄, N - NO₃ , N total soluble, Na, Ni, P, Pb, SO ₄ , Zn
Soil characteristics	C - org others (W&B a.o.), EC-SC (ISO 11265), Fraction < 16 µm, Fraction < 2 µm, Fraction < 63 µm, Fraction > 63 µm, Org.matter (L.O.I.), pH - CaCl₂, pH - H₂O, pH - KCl, TC=Total C (org.+inorg.), TIC=Tot.Inorg C(CaCO₃), TOC=Total Org. C
Other determinations	B - Hot water, CN - Free, CN - Total, delta ¹³ C, delta ¹⁵ N, K - HCl, Mg - NaCl, Moisture-content
Fluoride (Swiss standard procedure)	F - Total
Digestion with conc. HNO ₃ + conc. HCl + H ₂ O ₂ (UNEP-UN/EC 91075A)	Al, As, B, Ba, Be, Br, Ca, Cd, Co, Cr, Cu, F, Fe, Ga, Hg, I, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, S, Sb, Se, Si, Sn, Sr, Tl, V, Y, Zn, Zr
Pot. CEC using 1M NH ₄ -acetate at pH=7	Al, Ca, CEC, K, Mg, Na
Pot. CEC using 1M or 0.1M BaCl ₂ -TEA at pH=8.1 (ISO 13536 OR BZE)	Al, Ca, CEC, K, Mg, Na

ISE Group	Determinand
Pot. CEC using 1M NH ₄ Cl (BZE)	Al, Ca, CEC, Fe, H, K, Mg, Mn, Na
Act. CEC using 0.01M BaCl ₂ (ISO 11260)	Al, Ca, CEC, Fe, H, K, Mg, Mn, Na
Act. CEC using 0.1M BaCl ₂ (UNEP-UN/EC 91065A)	Al, Ca , CEC, Fe, H, K, Mg, Mn, Na
Act. CEC using cobaltihexamine (AFNOR NFX 31 130)	Al, Ca, CEC, Fe, H, K, Mg, Mn, Na
Mehlich-3	Al, As, B, Ca , Cd, Cr, Cu, Fe, K, Mg, Mn, Na, P, Pb, Zn
Extraction with Ca-lactate (VDLUFA)	K, P
Extraction with double lactate (VDLUFA)	K, P
Water soluble 1:10 (w/v) (EN-12457-4)	Br, Cl, F, N - NO ₃
Extraction with 0.01M CaCl ₂ + 0.005M DTPA 1:10 (w/v)	Cu, Fe, Mn, Zn
Extraction with 1M KCl 1:10 (w/v)	N - NH ₄ , N - NO ₃
Phosphorus and related analysis	Al - Ox, Fe - Ox, P - Ox, P - AL, P - Bray, P - Olsen, Pw
Extraction with 1M HCl (Polish standard)	B, Cu, Fe, Mn, Zn
Water soluble 1:10 (w/v) (NL VPR C85-06)	Br, Cl, F, SO ₄
UK Soil Methods	K - NH₄NO₃ (1/5), Mg - NH₄NO₃ (1/5), P - NaHCO₃ (1/20), pH - H₂O (2/5)

SETOC Group	Determinand
Polycyclic aromatic hydrocarbons	acenaphtene, acenaphtylene, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(ah)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphtalene, phenanthrene, pyrene
Polychlorobiphenyls	PCB 028, PCB 031, PCB 052, PCB 077, PCB 081, PCB 101, PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 128, PCB 138, PCB 149, PCB 153, PCB 156, PCB 157, PCB 167, PCB 169, PCB 180, PCB 189
Organochlorine pesticides	1,2,3 trichlorobenzene, 1,2,3,4 tetrachlorobenzene, 1,2,3,5 tetrachlorobenzene, 1,2,4 trichlorobenzene, 1,2,4,5 tetrachlorobenzene, 1,3,5 trichlorobenzene, aldrin, alpha-endosulfan, alpha-HCH, beta-endosulfan, beta-HCH, chlordane, cis-chlordane, delta-HCH, dieldrin, endosulfan, endosulfan sulfate, endrin, gamma-HCH, heptachlor, heptachlor epoxide, hexachlorobenzene, hexachlorobutadiene , isodrin, o,p`-DDD, o,p`-DDE, o,p`-DDT, p,p`-DDD, p,p`-DDE, p,p`-DDT, pentachlorobenzene , pentachlorophenol, Sum tetrachlorobenzenes, Sum trichlorobenzenes, telodrin, toxaphene, trans-chlord
Other parameters	AOX, CN - Free, CN - Total, EOX , Inorganic carbon, Mineral oil, GC, Mineral oil, IR, Organic carbon, Particles < 2 µm, Particles < 63 µm, Particles > 63 µm
Metals (aqua regia)	As, Ba, Cd, Co, Cr, Cu, Hg, Mo, Ni, Pb, Zn
Dibenzo-P Dioxin	1,2,3,4,6,7,8 Cl ₇ DD, 1,2,3,4,7,8 Cl ₆ DD, 1,2,3,6,7,8 Cl ₆ DD, 1,2,3,7,8 Cl ₅ DD, 1,2,3,7,8,9 Cl ₆ DD, 2,3,7,8 Cl ₄ DD, Cl ₆ DD
Dibenzofuran	1,2,3,4,6,7,8 Cl ₇ DF, 1,2,3,4,7,8 Cl ₆ DF, 1,2,3,4,7,8,9 Cl ₇ DF, 1,2,3,6,7,8 Cl ₆ DF, 1,2,3,7,8 Cl ₅ DF, 1,2,3,7,8,9 Cl ₆ DF, 2,3,4,6,7,8 Cl ₆ DF, 2,3,4,7,8 Cl ₅ DF, 2,3,7,8 Cl ₄ DF, Cl ₈ DF

SETOC Group	Determinand
Brominated Flame Retarders	BDE 028, BDE 047, BDE 066, BDE 085, BDE 099, BDE 100, BDE 153, BDE 154, BDE 183, BDE 209
Experimental	DEHP, Tributyl Tin (TBT)

MARSEP Group	Determinand
Real totals	Ag, Al, As, B, Ba, Be, Bi, Br, C, Ca, Cd, Co, Cr, Cu, F, Fe, Ga, Hg, I, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn
Acid extractable (So-called totals)	Ag, Al, As, B, Ba, Be, Bi, Br, C, Ca, Cd, Cl, Co, Cr, Cu, F, Fe, Ga, Hg, I, K, Li, Mg, Mn, Mo, N , N - NH4 (as N), N - NO3 (as N), Na, Ni, P, Pb, S, S - SO4, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn
Other determinations	AOX, loss-on-ignition

BIMEP Group	Determinand
General Analysis	ash, calorific value, moisture, Volatile Matter
Elementary Analysis	Carbon (C), Cl, Hydrogen (H), Nitrogen (N), S
Water Soluble Elements	Cl, K, Na
Major Elements	Al, Ca, Fe, K, Mg, Na, P, Si
Minor Elements	As, Ba, Be, Cd, Co, Cr, Cu, F, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Te, Ti, Tl, V, Zn

The selection of determinands included in the scope of accreditation is based on information about the homogeneity and stability of the samples. This information is available when sufficient participants have reported results for a determinand in the past 3 years. Determinands which are not reported regularly in sufficient numbers to have a statistical evaluation are not (yet) included in the scope of the accreditation.

Subcontracting

Some aspects of the proficiency testing scheme may from time to time be subcontracted. When subcontracting occurs it is placed with a competent subcontractor. WEPAL is responsible to the scheme participants for the subcontractor's work.

The analysis for the homogeneity tests of the samples used in this proficiency test are carried out by a subcontractor.

Confidentiality of results

The confidentiality of the results is extremely important in the Wepal programs. The participants may opt for a code name that indicates their laboratory, or one that ensures their anonymity. In the reports, only the code names will be mentioned.

When an accrediting body or a regulatory authority requires the proficiency test results to be provided by Wepal the participants shall be notified and asked for permission

Complaints and or remarks

The reports of WEPAL are assembled with the utmost care. Please contact us on info.wepal@wur.nl if you feel that the reports are not at a satisfactory standard or if you encountered errors in your results. Also feel free to contact us if you have any other complaints, remarks and or suggestions.

Homogeneity of the distributed samples

Homogeneity tests

WEPAL has developed special equipment for the production of representative subsamples (Houba, 1993) from a bulk material. The proper functioning of this equipment is tested by a homogeneity test in the final subsamples. To perform this test, samples are collected at regular intervals during the preparation of the

the samples. The collected samples, with a minimum of 10, are analysed in duplicate measurements under repeatability conditions. A selection of critical determinands is chosen for the tests. The results of the homogeneity tests are published in the annual reports.

All samples used in this round of the proficiency test have passed the homogeneity test.

Check of results

Before distribution of the periodic reports to the participants, a final check is made based on the results found by the participants. This check is made for all reported determinands. The variations between laboratories and concentrations are compared with the patterns as found in the previous 5 years. The expected pattern is a high CV at a low concentration and a gradually decreasing CV at higher concentrations till a more or less constant level of CV-values is reached (Houba et al., 1986). Deviations from this expected pattern are mentioned in the periodic reports. This might be an indication of inhomogeneity of the material for the determinand.

All data of this period are compared with the general patterns as published in the latest year report. No deviating values were found.

The quarterly report

In order to evaluate the accuracy and precision of the analytical procedures used, five proficiency testing programs have been established. At this moment the WEPAL Exchange Programs comprises approximately 600 laboratories in many countries. The participating laboratories receive four air-dried samples every three months and analyse the samples according to their own procedures. The results of the determinations are collected and processed at Wageningen University and published every three months. The participating laboratories are informed of the results in the third week of the next three-month period. Each participant can compare his results with those of all the other members of the exchange program. WEPAL will not comment on results unless asked to do so.

Reporting of data

The analysed components must be reported in oven-dry (105 °C) material. For this purpose the moisture content has to be determined separately and the analytical results have to be recalculated (see the form to report the results). To get reproducible results of these moisture contents we recommend you to dry the material during at least 3 hours at 105 °C and let cool down in a desiccator before weighing.

Statistics

Normal Distribution Approximation (NDA)

Interlaboratory studies like the WEPAL proficiency testing ringtests frequently give rise to datasets that have complex distributions including excessive tailing and multiple modes. Consequently, sophisticated statistical methods are required to obtain meaningful assessments. The strategy that was used until 2009 made use of an outlier test followed by straightforward statistics. Problem with this strategy is that removal of outliers causes an underestimation of variance of the dataset. Therefore a methodology was needed that does not rely on arbitrary outlier removal or subjective manual interpretations. Ideally the used methodology must provide the characteristics of the highest mode of the dataset.

The model that is chosen calculates population characteristics (mean and standard deviation) from experimental datasets (Cofino 2000). The model uses an estimate for the probability density function (pdf) of the measurement process and calculates a best fit based on all observed values. The implementation of the model that is used does not require uncertainty estimates for all data points. Instead it uses a normal distribution approximation (NDA) for the pdf of the individual data points. In essence, the pdf's of the individual datapoints are superposed on each other to create a continuous pdf representing the entire distribution (all datapoints).

With the mathematical model coefficients can be obtained by looking for the combination of data points that has the highest probability in the basis set. This maximization amounts to the identification of the first mode of the dataset. The coefficients can be used to calculate the weighted mean and standard deviation. Subsequent calculations give additional modes of the distribution and for each mode the expectation value (mean), the standard deviation and a percentage indicating the fraction of observations encompassed. In this report only mean and standard deviation for the first mode (combination with the highest probability in the dataset) are given.

The model is tested on simulated data sets and datasets of several interlaboratory studies. It is demonstrated that the model is robust and insensitive to outliers. It can cope with asymmetric, strongly tailing and multimodal distributions. Publications describing the procedure in more detail and results of the tests are in preparation.

With the NDA model mean and standard deviation are calculated using all reported data when at least 8 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

Table 2. The model summarised

- Each observation is attributed an ' Observation measurement function' (OMF, ϕ_i)
- An OMF is defined as the square root of the probability density function appropriate for the observation. If normal distributions are used: $\phi_i = \sqrt{N(\mu_i, \sigma_i^2)}$
- The set of ϕ_i 's constitutes a basic set in which the population measurement function Ψ is constructed: $\Psi_i = \sum c_{ik} \phi_k$
- The coefficients are obtained by finding the combination which renders highest probability density (maximise $\int \Psi^2 dx$, x being concentration). Mathematically this amounts to solving the eigenvector-eigenvalue equation $Sc = \lambda c$, S_{ij} being an overlap integral defined as $\int \phi_i \phi_j dx$, $0 \leq S_{ij} \leq 1$
- Mean and standard deviation of Ψ_i are calculated from the first and second moment of the probability density function Ψ_i^2

$$\bar{m}_i = \frac{\int x \Psi_i^2 dx}{\int \Psi_i^2 dx},$$

$$s_i^2 = \frac{\int x^2 \Psi_i^2 dx}{\int \Psi_i^2 dx} - \bar{m}_i^2$$

- When the NDA approximation is used the variance calculated by the model represents the sum of the estimates for the within-laboratory and between-laboratory variances, i.e.

$$s_i^2 = s_{between\ labs,i}^2 + s_{within\ labs,i}^2$$

Median and MAD

For each determinand a median value and a median of absolute deviations (MAD) are calculated using all reported data except the reported '<' values. Deviating results like stragglers and outliers are not removed. The median is the middle observation of the sorted observations. In the case of an even number of observations it is the mean of the two middle observations. Using the median instead of mean, extreme data have less influence. MAD is the median of the absolute values of the observations minus their median.

Z-score

For all analytical data a Z-score is calculated according to the formula:

$$Z\text{-score} = \frac{X - X_{mean}}{S_d}$$

in which:

X = the reported value

X_{mean} = the mean of all values calculated with the NDA model

S_d = standard deviation calculated with the NDA model

Evaluation of results

For the evaluation of results the absolute value of the Z-score is used. Questionable results $2 < |Z| < 3$ are marked as stragglers (*). Deviating results with $|Z| > 3$ are marked as outliers (**).

Results reported as 'smaller than' (<) are also evaluated. When this 'smaller than' value is lower than the mean a Z-score is calculated. Based on this z-score these 'smaller than' values can also be marked as straggler or outlier. In these cases the 'smaller than' value is set too low.

Uncertainty of the assigned value

The aim of this proficiency testing scheme is to establish comparability among laboratories. Results for measurands in this scheme are dependent on the methods which are used. It is not feasible to establish metrological traceability of the assigned value. Assigned values are therefore based on consensus values. In this proficiency test the robust standard deviation is used as standard deviation for proficiency assessment. The uncertainty in the assigned value is calculated as :

$$u_x = s / \sqrt{N}$$

s = robust standard deviation

N = number of results

The uncertainty in the assigned value may influence the evaluation of the results (calculated Z-scores). This influence is considered to be negligible if the following conditions is met:

$$u_x \leq 0.3 * \sigma_{pt}$$

u_x = uncertainty in the assigned value

σ_{pt} = standard deviation for proficiency assessment (= s)

Because $\sigma_{pt} = s$ this evaluation reverts to :

$$s / \sqrt{N} \leq 0.3 * s \text{ or } \sqrt{N} \geq 3$$

The influence of uncertainty on the evaluation of the results is therefore dependent on the number of results. Above 10 results of uncertainty on the assigned value is negligible. From 8 to 10 results uncertainty of the consensus value is larger than $0.3 \sigma_{pt}$ and therefore may influence the evaluation of the results. Below 8 results no consensus value is given.

Rounding of results

Rounding interval is set to have at least three significant digits for the results. This is based on the value of the mean. If no mean value is available (less than 8 results) the median is used. In cases where between laboratory variation is small (based on the standard deviation) an extra digiti shown. For the statistical results (mean, standard deviation, median and MAD) one extra digit is shown.

Note that larger results are also rounded (e.g. 1809 may be rounded as 1810).

Materials Analysed

Table 3 Materials analysed in this period.

Sample	Sample ID	Type	Country
1	791	Marine Sediment	Netherlands
2	792	Marine Sediment	Netherlands
3	784	Sediment	Netherlands
4	776	Marine Sediment	Italy

Method Indicating Code (MIC)

In order to evaluate the analytical results for each reported determinand (see **Table 4** for the different element groups), a Method Indicating Code (MIC) is used. Details of the analytical procedures used by the individual participants are indicated by characters, added at the end of each row with results. The first character indicates the method of extraction or digestion according to the codes explained in **Table 5**. The next two characters describe clean-up procedure (**Table 6**) and separation technique (**Table 7**). The last characters indicate the method of detection of the element in the extracts or digests (**Table 8**). In this way it

is possible for all participants to compare the results of their analytical procedures more specifically with the results of other participants. This could be a further valuable tool in judgement of the individual results.

Table 4 *Used abbreviations*

Method	Abbreviation	Method
1	PAH	Polycyclic aromatic hydrocarbons
2	PCB	Polychlorobiphenyls
3	OCB	Organochlorine pesticides
4	OD	Other parameters
5	MET	Metals
6	DD	Dibenzo-P Dioxin
7	DF	Dibenzofuran
8	EXP	Experimental

Table 5 *Extraction*

Code	Extraction
-	No extraction
A	Supercritical fluid extraction (SFE)
B	Soxhlet extraction
C	Pentane
D	Dichloromethane
E	Freon
F	Petroleum ether
J	Ultrasonic extraction
Q	Shaking
T	Microwave
U	aqua regia (using boiling under reflux)
V	Aqua Regia (using a Microwave system)
Y	Aqua Regia
Z	Other (specify)

Table 6 *Clean-up procedure*

Code	Clean up Procedure
-	No Clean-Up
A	Liquid-liquid partition
E	Liquid-liquid partition, sulphur removal
H	Liquid-liquid partition, column chromatography
K	Liquid-liquid partition, sulphur removal, column chromatography
N	Sulphur removal
R	Column chromatography
U	Sulphur removal, column chromatography
V	Filtration
W	Solid phase extraction (SPE)
X	Removal of polar compounds with Florisil
Y	Gel permeation chromatography (GPC)
Z	Others (specify)

Table 7 *Separation technique*

Code	Separation Technique
-	No Separation
A	HPLC, C-18
E	HPLC, C-8
H	GC, splitless
I	GC, splitless (2 columns)
J	GC, split (2 columns)
K	GC, on-column
Z	Others (specify)

Table 8 *Detection technique*

Code	Detection Technique
A	AAS-FLAME
AA	without background correction using air-acetylene
AC	without background correction using N ₂ O-acetylene
AE	with deuterium background correction using air-acetylene
AG	with deuterium background correction using N ₂ O-acetylene
AJ	with Zeeman background correction using air-acetylene
AL	with Zeeman background correction using N ₂ O-acetylene
AN	with pulsed hollow cathode lamp background correction using air-acetylene
AP	with pulsed hollow cathode lamp background correction using N ₂ O-acetylene
B	AAS-ETA
BA	without background correction without chemical modifier
BC	without background correction with chemical modifier*
BE	with deuterium background correction without chemical modifier
BG	with deuterium background correction with chemical modifier*
BJ	with Zeeman background correction without chemical modifier
BL	with Zeeman background correction with chemical modifier*
BN	with pulsed hollow cathode lamp without chemical modifier
BP	with pulsed hollow cathode lamp with chemical modifier*
C	Flame emission
CC	ICP-AES (different wavelengths are possible; indicate the used wavelength
CE	other excitation source (dif. wavelengths possible; indicate used wavelength
D	ICP-MS
E	Spectrophotometry
F	Hydride technique (similar techniques using analyte volatilization; specify)
G	Cold vapour technique
H	Ion selective electrode
IA	Direct voltammetry
IB	Stripping voltammetry
JA	Gas chromatography
JB	Liquid chromatography
JC	Ion chromatography
KA	X-ray fluorescence with material melted
KB	X-ray fluorescence with material pressed
L	Neutron Activation Analysis
M	Titrimetric
MA	Coulometry
N	Near Infrared
O	UV-absorption
OP	UV-absorption + fluorescence (O+P)
P	Fluorescence
Q	Electron capture
R	Mass selective
S	Flame ionisation
T	Infrared
Y	Fractions < 2 µm , < 63 µm and > 63 µm
YA	Pipet and sieve method
YB	Hydrometer method
YC	Instrumental methods (e.g. counters)
Z	Others

* specify concentration, type of chemical modifier and µl injected sample and modifiers

References and related literature

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Used abbreviations and symbols

Table 9 *Used abbreviations and symbols*

Where	Abbreviation	Explanation
Results	MIC	method indicating code
Results	MAD	median absolute deviation
Results	Sd	standard deviation
Results, Z-scores	<	value smaller than
Results, Z-scores	*	straggler
Results, Z-scores	**	outlier
Results, Z-scores	-	no result was submitted
Results statistical values	-	not calculated
Z-scores	#	less than 8 values, no mean and Sd calculated
Errors	C	Correction participant
Errors	D	Results received after deadline (before publication date)
Errors	E	Error WEPAL
Errors	M	Modified results
Errors	N	New results
Errors	R	Results removed

Analysis SETOC 2012.1

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample	791	792	784	776	MIC
acenaphthene (µg/kg)					
BOANALHOAG (2)	25.0	45.0 *	113 *	5393	QWH R
MLABTW (4)	60.0 <	100.0 <	8028 **	216 **	ZWAOP
Alconheinr (7)	50.0	90.0	210	6700	Q-K R
ANM (8)	39.9	83.9	231	7701	Q-HR
FRIDOLIN (15)	47.0	89.7	203	7842	BWK R
HIDU (16)	37.0	78.0	175	6036	ZUH R
PAULINE (18)	46.8	94.4	282 *	7448	Z-H R
RIZA-IMLO (20)	54.3	101.4	198	6224	D-AOP
ANALGEO (21)	39.0	73.0	163	3760 *	DNZ R
ANATEK (29)	74.5 *	128.7 **	364 **	10042 *	Q-H R
ELML (33)	50.0 <	80.0	240	8630	QZH R
WELLAB (35)	43.9	84.6	167	5754	BRHR
US (39)	50.0	90.0	220	8190	FHAOP
LAS (48)	103.0 <	102.0 <	230	6480	ZVAOP
CHEMLABSIT (52)	42.0	65.0	203	5230	---
32A (56)	50.0	100.0	240	8220	Z-HS
HILL (58)	24.0	51.0	145	7100	ZXHR
ARCHIMEDES (59)	-	-	143	5786	Z-H R
GGM (60)	50.0 <	73.2	225	5332	ZVZ R
ULS (61)	27.0	81.0	226	13400 **	Q-H R
COMALAB (67)	100.0 <	100.0 <	221	4121	BZHR
QSANAL (76)	43.0	92.0	187	6276	Z-H R
BOREALIS (78)	38.0	81.1	187	5972	---
TECHHK (79)	50.0 <	86.0	216	6980	Q-HR
EPILAB-1A (87)	30.0	62.0	180	5600	QWHJA
GAL (91)	32.0	71.0	186	6344	A-H R
STCRSC (92)	49.6	111.0	159	5090	J-J R
VERITAS (101)	47.0	83.0	231	7663	JZK R
RECKENHOLZ (108)	40.9	84.1	236	6605	BHK R
THO1808MAS (110)	32.0	63.6	144	195 **	ZRH R
APVROPAVA (112)	29.6	68.9	202	6433	QWA P
ORGDIMCH (120)	56.4	73.6	252	7550	D-H R
HHAFU (134)	46.4	99.8	240	5737	QRH R
CH-SAMEN (469)	40.2	64.3	182	7145	Q-HR
ECCM (841)	29.5	71.8	212	7130	JAHR
LAB607 (862)	22.0	59.0	209	5349	B-HR
CNRLBR (875)	36.4	76.4	179	6621	ZUH R
LABAMB (878)	51.0	108.0	194	6372	J-K R
TAMPERE (911)	69.0 *	32.9 *	199	8330	Q-HR
SHI (912)	47.5	102.0	269	7420	QAH R
WANDSCH (958)	21.4	45.5 *	149	7030	Q-JR
PA2010LAB (1058)	29.8	74.3	187	5147	ZWH R

	Statistical Results			
NDA mean	40.34	79.92	202.3	6547
NDA st dev	12.73	16.11	37.5	1379
N	35	38	42	42
Median	40.89	80.50	203.0	6457
MAD	8.89	10.50	25.5	978

acenaphthylene (µg/kg)					
BOANALHOAG (2)	19.0	38.0	192	864	QWH R
MLABTW (4)	520.0 <	260.0 <	170 <	165 <	ZWAOP
Alconheinr (7)	70.0 **	80.0 *	410	1300	Q-A R
ANM (8)	16.9	38.1	209	616	Q-HR
FRIDOLIN (15)	9.3	14.2	62	212	BWK R
HIDU (16)	24.0	47.0	302	960	ZUH R
PAULINE (18)	65.2 **	106.2 **	732 **	2049 **	Z-H R
RIZA-IMLO (20)	100.0 <	100.0 <	100 <	165	D-A O
ANALGEO (21)	30.0	51.0	287	648	DNZ R

	Summary Statistics				
NDA mean	20.72	40.03	235.0	637.2	
NDA st dev	9.76	17.47	88.4	391.5	
N	30	33	36	41	(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
acenaphthylene (µg/kg) (cont.)						
ANATEK	(29)	19.2	33.0	166	576	Q-H R
ELML	(33)	50.0 <	50.0 <	280	770	QZH R
WELLAB	(35)	27.9	47.0	262	1075	BRHR
US	(39)	37.0	64.0	329	1024	FHAOP
LAS	(48)	310.0 <	306.0 <	305 <	452	ZVAOP
CHEMLABSIT	(52)	10.0 <	10.0 <	100 <	101	---
32A	(56)	70.0 **	120.0 **	570 **	2000 **	Z-HS
HILL	(58)	24.0	42.0	280	790	ZXHR
ARCHIMEDES	(59)	-	-	100 <	252	Z-H R
GGM	(60)	50.0 <	50.0 <	220	650	ZVZ R
ULS	(61)	25.0	66.0	235	705	Q-H R
COMALAB	(67)	100.0 <	100.0 <	240	449	BZHR
QSANAL	(76)	25.0	52.0	262	908	Z-H R
BOREALIS	(78)	25.5	55.9	279	585	---
TECHHK	(79)	50.0 <	87.0 *	538 **	1500 *	Q-HR
EPILAB-1A	(87)	22.0	39.0	300	875	QWHJA
GAL	(91)	16.0	37.0	218	621	A-H R
STCRSC	(92)	30.4	47.5	175	394	J-J R
VERITAS	(101)	13.0	27.0	205	569	JZK R
RECKENHOLZ	(108)	7.8	17.2	126	303	BHK R
THO1808MAS	(110)	17.0	35.5	204	636	ZRH R
APVROPAVA	(112)	20.0 <	20.0 <	-	257	QWA P
ORGDIMCH	(120)	19.6	31.5	197	483	ZZZ R
HHAFU	(134)	20.0 <	35.9	209	496	QRH R
CH-SAMEN	(469)	48.8 *	60.0	302	1208	Q-HR
ECCM	(841)	18.3	44.4	302	1070	JCHR
LAB607	(862)	10.0 <	14.0	123	335	B-HR
CNRLBR	(875)	14.8	29.0	168	341	ZUH R
LABAMB	(878)	20.0	35.0	205	740	J-K R
TAMPERE	(911)	56.3 **	26.8	393	1030	Q-HR
SHI	(912)	34.4	68.1	353	1290	QAH R
WANDSCH	(958)	12.1	27.0	160	543	Q-JR
PA2010LAB	(1058)	13.2	31.4	173	279	ZWH R

	Statistical Results			
NDA mean	20.72	40.03	235.0	637.2
NDA st dev	9.76	17.47	88.4	391.5
N	30	33	36	41
Median	23.00	39.00	237.5	636.0
MAD	7.00	12.00	62.5	272.0

anthracene (µg/kg)						
ZINDZIWE	(1)	-	-	720	250	--A E
BOANALHOAG	(2)	49	88	347 *	506	QWH R
MLABTW	(4)	87	191	432	683	ZWAOP
AL-West	(5)	74	-	-	-	ZRAOP
Alconheir	(7)	150	250	680	670	Q-K R
ANM	(8)	108	210	727	670	Q-HR
BLAUWHUIS	(14)	101	207	834	824	---
FRIDOLIN	(15)	124	221	682	673	BWK R
HIDU	(16)	145	351 *	784	895	ZUH R
PAULINE	(18)	125	206	976	1228 *	Z-H R
RIZA-IMLO	(20)	143	254	683	697	D-AOP
ANALGEO	(21)	181	307	722	625	DNZ R
EXACT	(28)	110	230	710	870	Q-K R
ANATEK	(29)	787 **	1274 **	4826 **	6792 **	Q-H R
ELML	(33)	150	260	860	1490 **	QZH R
WELLAB	(35)	181	310	795	1866 **	BRHR
US	(39)	130	220	720	1040	FHAOP
LAS	(48)	168	300	861	658	ZVAOP

	Summary Statistics			
NDA mean	112.6	207.0	704.4	583.9
NDA st dev	35.2	64.4	161.6	290.8
N	47	47	48	48

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
anthracene (µg/kg) (cont.)						
CHEMLABSIT	(52)	87	131	623	360	---
ATM	(54)	110	170	660	350	F-A P
32A	(56)	170	310	960	1900 **	Z-HS
HILL	(58)	81	135	540	390	ZXHR
ARCHIMEDES	(59)	105	221	557	462	Z-H R
GGM	(60)	105	189	689	657	ZVZ R
ULS	(61)	81	242	837	1050	Q-H R
COMALAB	(67)	100 <	165	703	645	BZHR
QSANAL	(76)	95	214	481	770	Z-H R
BOREALIS	(78)	152	317	896	18016 **	---
TECHHK	(79)	146	262	913	26600 **	Q-HR
EPILAB-1A	(87)	93	156	580	600	QWHJA
GAL	(91)	99	176	804	655	A-H R
STCRSC	(92)	91	163	476	298	J-J R
VERITAS	(101)	97	163	718	480	JZK R
RECKENHOLZ	(108)	106	196	716	337	BHK R
THO1808MAS	(110)	120	230	685	689	ZRH R
APVROPAVA	(112)	96	178	613	426	QWA P
ORGDIMCH	(120)	148	242	806	580	ZZZ R
HHAFU	(134)	119	230	760	468	QRH R
CH-SAMEN	(469)	174	146	826	545	Q-HR
ECCM	(841)	76	146	692	485	JAH R
LAB607	(862)	75	153	543	441	B-HR
CNRLBR	(875)	103	232	517	426	ZUH R
LABAMB	(878)	115	205	605	650	J-K R
CHE	(887)	75	122	430	243	ZYHR
TAMPERE	(911)	188 *	93	791	760	Q-HR
SHI	(912)	129	241	861	1430 *	QAH R
WANDSCH	(958)	57	114	425	422	Q-JR
LUNLAB	(1052)	176	317	1174 *	4081 **	TWHR
PA2010LAB	(1058)	101	207	587	437	ZWH R

	Statistical Results			
NDA mean	112.6	207.0	704.4	583.9
NDA st dev	35.2	64.4	161.6	290.8
N	47	47	48	48
Median	110.0	210.0	712.8	655.8
MAD	23.0	43.6	110.5	214.5

benz(a)anthracene (µg/kg)						
ZINDZIWE	(1)	-	-	3600	1900	--A E
BOANALHOAG	(2)	90 **	221 **	1416 **	1122 *	QWH R
MLABTW	(4)	278	647	2456 *	3678 **	ZWAOP
AL-West	(5)	203	-	-	-	ZRAOP
Alconheinr	(7)	280	660	3600	2000	Q-K R
ANM	(8)	317	872 *	3952	2598	Q-HR
BLAUWHUIS	(14)	234	541	3249	1638	---
FRIDOLIN	(15)	295	736	4196	2005	BWK R
HIDU	(16)	293	694	3027	2057	ZUH R
PAULINE	(18)	313	638	4994	2478	Z-H R
RIZA-IMLO	(20)	289	555	3662	2155	D-AOP
ANALGEO	(21)	322	635	3000	1658	DNZ R
EXACT	(28)	240	600	3400	2000	Q-K R
ANATEK	(29)	556 **	1500 **	6715 **	3574 **	Q-H R
ELML	(33)	240	600	3650	1820	QZH R
WELLAB	(35)	323	709	3048	2112	BRHR
US	(39)	290	726	3923	2336	FHAOP
LAS	(48)	358	758	4230	2390	ZVAOP
CHEMLABSIT	(52)	246	536	3770	1840	---
ATM	(54)	350	780	4360	2430	F-A P

	Summary Statistics			
NDA mean	270.3	635.9	3775	2096
NDA st dev	52.3	95.4	618	403
N	47	46	47	47

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
benz(a)anthracene (µg/kg) (cont.)						
32A	(56)	310	690	3670	2140	Z-HS
HILL	(58)	155 *	400 *	4700	1570	ZXHR
ARCHIMEDES	(59)	265	623	4030	2008	Z-H R
GGM	(60)	256	568	4149	2278	ZVZ R
ULS	(61)	193	615	3963	2490	Q-H R
COMALAB	(67)	250	622	3749	1793	BZHR
QSANAL	(76)	200	489	3197	1693	Z-H R
BOREALIS	(78)	329	834 *	3942	2475	---
TECHHK	(79)	296	658	4410	2260	Q-HR
EPILAB-1A	(87)	230	590	3560	1800	QWHJA
GAL	(91)	247	776	4584	2605	A-H R
STCRSC	(92)	176	424 *	2917	1598	J-J R
VERITAS	(101)	272	575	3945	2242	JZK R
RECKENHOLZ	(108)	256	628	4319	2310	BHK R
THO1808MAS	(110)	290	670	3960	2309	ZRH R
APVROPAVA	(112)	259	547	3316	1707	QWA P
ORGDIMCH	(120)	317	695	4253	2644	ZZR R
HHAUFU	(134)	276	638	3558	1960	QRH R
CH-SAMEN	(469)	290	730	4002	2111	Q-HR
ECCM	(841)	216	568	5170 *	1930	JAHR
LAB607	(862)	377 *	662	2228 *	2766	B-HR
CNRLBR	(875)	221	513	2943	1773	ZUH R
LABAMB	(878)	280	627	3706	2166	J-K R
TAMPERE	(911)	535 **	198 **	3790	1940	Q-HR
SHI	(912)	439 **	1040 **	4050	2810	QAH R
WANDSCH	(958)	210	569	3198	1924	Q-JR
LUNLAB	(1052)	261	815	5406 *	2874	TWHR
PA2010LAB	(1058)	261	630	3598	2053	ZWH R

	Statistical Results			
NDA mean	270.3	635.9	3775	2096
NDA st dev	52.3	95.4	618	403
N	47	46	47	47
Median	276.0	632.6	3770	2111
MAD	36.0	64.7	426	279

benzo(a)pyrene (µg/kg)						
ZINDZIWE	(1)	-	-	4300	1200	--A E
BOANALHOAG	(2)	209	327	2554	1534	QWH R
MLABTW	(4)	236	496	1681 **	4162 **	ZWAOP
AL-West	(5)	215	-	-	-	ZRAOP
Alconheir	(7)	240	480	3500	1200	Q-K R
ANM	(8)	255	552	3390	1450	Q-HR
BLAUWHUIS	(14)	223	460	3491	1157	---
FRIDOLIN	(15)	227	447	3488	1073	BWK R
HIDU	(16)	264	601	3628	1677	ZUH R
PAULINE	(18)	198	382	4535	1325	Z-H R
RIZA-IMLO	(20)	223	464	4134	1625	D-AOP
ANALGEO	(21)	280	483	3080	1156	DNZ R
EXACT	(28)	200	440	3500	1200	Q-K R
ANATEK	(29)	451 **	1079 **	7442 **	2657 **	Q-H R
ELML	(33)	220	430	3340	1110	QZH R
WELLAB	(35)	273	520	3345	1429	BRHR
US	(39)	286	609	4210	1618	FHAOP
LAS	(48)	293	522	3560	1340	ZVAOP
CHEMLABSIT	(52)	249	462	3670	1190	---
ATM	(54)	290	530	4800 *	1560	F-A P
32A	(56)	250	470	3500	1300	Z-HS
HILL	(58)	122 *	270 *	4300	890	ZXHR
ARCHIMEDES	(59)	210	478	3231	1112	Z-H R

	Summary Statistics				
NDA mean	228.4	465.1	3594	1255	
NDA st dev	41.6	80.6	527	244	
N	48	47	48	48	(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
benzo(a)pyrene (µg/kg) (cont.)						
GGM	(60)	205	392	3722	1278	ZVZ R
ULS	(61)	197	518	3856	1800 *	Q-H R
COMALAB	(67)	220	503	3657	1126	BZHR
QSANAL	(76)	167	336	2746	1039	Z-H R
BOREALIS	(78)	280	661 *	3950	2558 **	---
TECHHK	(79)	288	541	4310	1590	Q-HR
EPILAB-1A	(87)	194	475	3740	1150	QWHJA
GAL	(91)	191	373	4087	1045	A-H R
STCRSC	(92)	193	378	2814	965	J-J R
VERITAS	(101)	285	473	3047	1846 *	JKZ R
RECKENHOLZ	(108)	188	408	3754	1304	BHK R
THO1808MAS	(110)	240	518	3614	1392	ZRH R
APVROPAVA	(112)	233	458	3654	1324	QWA P
ORGDIMCH	(120)	281	536	4115	1531	ZZZ R
HHAFU	(134)	212	403	2399 *	921	QRH R
CH-SAMEN	(469)	330 *	542	5909 **	2136 **	Q-HR
ECCM	(841)	185	433	4160	1330	JAHR
LAB607	(862)	213	357	1453 **	1201	B-HR
CNRLBR	(875)	205	414	3072	1105	ZUH R
LABAMB	(878)	213	447	3368	1264	J-K R
CHE	(887)	244	437	3590	962	ZYHR
TAMPERE	(911)	401 **	168 **	3540	1120	Q-HR
SHI	(912)	302	623	2830	1280	QAH R
WANDSCH	(958)	152	379	2950	1151	Q-JR
LUNLAB	(1052)	205	456	3805	1541	TWHR
PA2010LAB	(1058)	241	505	3534	1198	ZWH R

	Statistical Results			
NDA mean	228.4	465.1	3594	1255
NDA st dev	41.6	80.6	527	244
N	48	47	48	48
Median	225.0	464.3	3575	1279
MAD	27.7	55.7	360	168

benzo(b)fluoranthene (µg/kg)						
BOANALHOAG	(2)	162	312 *	2124	2436	QWH R
MLABTW	(4)	323	563	3456	3146	ZWAOP
Alconheinr	(7)	530	1000	4900	3600	Q-K R
ANM	(8)	475	929	3761	3306	Q-HR
FRIDOLIN	(15)	334	571	3172	2229	BWK R
HIDU	(16)	349	609	2768	2722	ZUH R
PAULINE	(18)	624 *	1050	7424 **	4943 *	Z-H R
RIZA-IMLO	(20)	393	605	3706	2978	D-AOP
ANALGEO	(21)	478	728	3460	2490	DNZ R
ELML	(33)	420	950	6320 *	3270	QZH R
WELLAB	(35)	421	743	3455	2806	BRHR
US	(39)	365	742	4055	3182	FHAOP
LAS	(48)	383	639	3810	2800	ZVAOP
CHEMLABSIT	(52)	499	848	4790	2850	---
32A	(56)	550	950	5120	3970	Z-HS
ARCHIMEDES	(59)	-	-	5371	3808	Z-H R
GGM	(60)	410	720	4350	3550	ZVZ R
ULS	(61)	340	1040	4139	3092	Q-H R
COMALAB	(67)	350	638	3891	2451	BZHR
QSANAL	(76)	280	547	3146	2441	Z-H R
BOREALIS	(78)	482	894	4577	6205 **	---
TECHHK	(79)	638 *	1180 *	6670 *	4510 *	Q-HR
EPILAB-1A	(87)	280	595	3420	2450	QWHJA
GAL	(91)	258	577	4087	2152	A-H R
STCRSC	(92)	219	438	2610	1971	J-J R

	Summary Statistics			
NDA mean	387.1	699.2	3923	2942
NDA st dev	118.3	178.8	953	711
N	40	40	41	41

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample	791	792	784	776	MIC
benzo(b)fluoranthene (µg/kg) (cont.)					
VERITAS (101)	406	664	3879	2602	JKZ R
RECKENHOLZ (108)	291	627	3930	2977	BHK R
THO1808MAS (110)	347	649	4750	2778	ZRH R
APVROPAVA (112)	308	536	3261	2449	QWA P
ORGDIMCH (120)	444	871	5563	4569 *	ZZZ R
HHAFU (134)	421	764	3253	2491	QRH R
CH-SAMEN (469)	493	999	6818 **	4771 *	Q-HR
ECCM (841)	236	525	4140	2460	JAHR
LAB607 (862)	394	651	1838 *	3209	B-HR
CNRLBR (875)	325	601	3368	2630	ZUH R
LABAMB (878)	307	611	3416	2687	J-K R
TAMPERE (911)	663 *	311 *	4260	2810	Q-HR
SHI (912)	523	983	3660	3390	QAH R
WANDSCH (958)	383	853	4760	4116	Q-JR
LUNLAB (1052)	313	632	4092	3468	TWHR
PA2010LAB (1058)	570	1005	5601	3908	ZWH R

	Statistical Results			
NDA mean	387.1	699.2	3923	2942
NDA st dev	118.3	178.8	953	711
N	40	40	41	41
Median	388.1	657.5	3930	2977
MAD	80.6	108.5	647	491

benzo(ghi)perylene (µg/kg)					
ZINDZIWE (1)	-	-	3500	3100 **	--A E
BOANALHOAG (2)	125 *	192 **	1728 *	1638	QWH R
MLABTW (4)	342 *	861 **	2935	3847 **	ZWAOP
AL-West (5)	210	-	-	-	ZRAOP
Alconheinr (7)	250	470	2600	1700	Q-K R
ANM (8)	216	375	1745	1232	Q-HR
BLAUWHUIS (14)	194	359	2200	1444	---
FRIDOLIN (15)	221	375	2536	1512	BWK R
HIDU (16)	214	429	2983	2037	ZUH R
PAULINE (18)	288	488	3661 *	1975	Z-H R
RIZA-IMLO (20)	281	414	3150	2043	D-AOP
ANALGEO (21)	320 *	492	2670	1709	DNZ R
EXACT (28)	210	400	2800	1700	Q-K R
ANATEK (29)	209	398	2470	2609 *	Q-H R
ELML (33)	210	380	2510	1270	QZH R
WELLAB (35)	288	468	2564	1618	BRHR
US (39)	330 *	600 *	3790 *	2230	FHAOP
LAS (48)	516 <	728 **	4120 **	2410 *	ZVAOP
CHEMLABSIT (52)	220	411	2860	1520	---
ATM (54)	230	440	3540	1900	F-A P
32A (56)	250	420	2570	1710	Z-HS
HILL (58)	163	310	2300	1400	ZXHR
ARCHIMEDES (59)	231	471	2206	1282	Z-H R
GGM (60)	233	432	2939	1883	ZVZ R
ULS (61)	189	477	2934	1764	Q-H R
COMALAB (67)	200	385	2768	1536	BZHR
QSANAL (76)	182	362	2489	1688	Z-H R
BOREALIS (78)	287	590 *	2817	1956	---
TECHK (79)	258	483	2870	1770	Q-HR
EPILAB-1A (87)	205	405	2520	1450	QWHJA
GAL (91)	185	377	3133	1398	A-H R
STCRSC (92)	295	557	2380	1438	J-J R
VERITAS (101)	271	424	3010	2003	JKZ R
RECKENHOLZ (108)	217	376	2210	1510	BHK R
THO1808MAS (110)	234	450	1790	1370	ZRH R

	Summary Statistics			
NDA mean	228.6	419.7	2659	1629
NDA st dev	42.8	69.6	464	357
N	47	47	48	48

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
benzo(ghi)perylene (µg/kg) (cont.)						
APVROPAVA	(112)	218	391	2533	1607	QWA P
ORGDIMCH	(120)	279	470	2672	1761	ZZZ R
HHAUFU	(134)	241	387	1909	1341	QRH R
CH-SAMEN	(469)	306	480	3704 *	1933	Q-HR
ECCM	(841)	256	518	3580	1900	JAHR
LAB607	(862)	184	259 *	996 **	1178	B-HR
CNRLBR	(875)	232	420	2508	1775	ZUH R
LABAMB	(878)	204	388	2399	1620	J-K R
CHE	(887)	247	405	2740	1300	ZYHR
TAMPERE	(911)	341 *	148 **	2550	1250	Q-HR
SHI	(912)	196	363	1700 *	1190	QAH R
WANDSCH	(958)	124 *	240 *	1775	1071	Q-JR
LUNLAB	(1052)	196	397	3102	2107	TWHR
PA2010LAB	(1058)	252	463	2751	1638	ZWH R

	Statistical Results			
NDA mean	228.6	419.7	2659	1629
NDA st dev	42.8	69.6	464	357
N	47	47	48	48
Median	230.0	413.5	2635	1663
MAD	28.0	49.2	302	250

benzo(k)fluoranthene (µg/kg)						
ZINDZIWE	(1)	-	-	2100	1400	--A E
BOANALHOAG	(2)	59 **	111 **	803 **	913	QWH R
MLABTW	(4)	182	325	1604	1775	ZWAOP
AL-West	(5)	158	-	-	-	ZRAOP
Alconheir	(7)	230	450 *	2100	1600	Q-K R
ANM	(8)	342 **	727 **	3400 **	2475 **	Q-HR
BLAUWHUIS	(14)	162	284	1866	1298	---
FRIDOLIN	(15)	209	357	1982	1393	BWK R
HIDU	(16)	166	294	1403	1361	ZUH R
PAULINE	(18)	221	382	2712 *	1718	Z-H R
RIZA-IMLO	(20)	188	335	2011	1405	D-AOP
ANALGEO	(21)	200	336	1660	1129	DNZ R
EXACT	(28)	190	370	2100	1500	Q-K R
ELML	(33)	160	300	1880	1140	QZH R
WELLAB	(35)	164	363	1613	1144	BRHR
US	(39)	222	409	1839	1476	FHAOP
LAS	(48)	197	355	2230	1410	ZVAOP
CHEMLABSIT	(52)	171	341	2190	1270	---
ATM	(54)	200	340	2040	1520	F-A P
32A	(56)	160	310	1790	1230	Z-HS
HILL	(58)	89 *	200 *	2800 *	920	ZXHR
ARCHIMEDES	(59)	174	310	1473	979	Z-H R
GGM	(60)	152	299	1827	1251	ZVZ R
ULS	(61)	138	319	1865	1131	Q-H R
COMALAB	(67)	150	316	1896	1087	BZHR
QSANAL	(76)	115	347	2134	1282	Z-H R
BOREALIS	(78)	169	408	1553	2505 **	---
TECHK	(79)	195	301	1870	1370	Q-HR
EPILAB-1A	(87)	105	275	1640	1050	QWHJA
GAL	(91)	183	377	2228	1366	A-H R
STCRSC	(92)	104	212 *	1195	650 *	J-J R
VERITAS	(101)	206	338	2012	1350	JZK R
RECKENHOLZ	(108)	127	297	2017	1371	BHK R
THO1808MAS	(110)	152	337	1370	1140	ZRH R
APVROPAVA	(112)	152	279	1749	1173	QWA P
ORGDIMCH	(120)	166	355	1875	1463	ZZZ R
HHAUFU	(134)	164	289	1332	933	QRH R

	Summary Statistics			
NDA mean	171.1	331.2	1874	1306
NDA st dev	35.9	48.3	340	262
N	46	45	46	46

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
benzo(k)fluoranthene (µg/kg) (cont.)						
CH-SAMEN	(469)	183	365	2547	1352	Q-HR
ECCM	(841)	118	326	2530	1140	JAHR
LAB607	(862)	223	347	928 *	1626	B-HR
CNRLBR	(875)	142	262	1562	1197	ZUH R
LABAMB	(878)	165	335	1785	1340	J-K R
TAMPERE	(911)	284 **	123 **	1870	1150	Q-HR
SHI	(912)	227	432 *	1850	1580	QAH R
WANDSCH	(958)	156	341	1625	1293	Q-JR
LUNLAB	(1052)	148	327	2062	1626	TWHR
PA2010LAB	(1058)	211	480 **	2410	1663	ZWH R

	Statistical Results			
NDA mean	171.1	331.2	1874	1306
NDA st dev	35.9	48.3	340	262
N	46	45	46	46
Median	166.1	335.0	1870	1345
MAD	24.0	34.0	230	185

chrysene (µg/kg)						
ZINDZIWE	(1)	-	-	4300	2300	--A E
BOANALHOAG	(2)	117 *	242 **	1495 **	1418 *	QWH R
MLABTW	(4)	321	767	2662	3984 *	ZWAOP
AL-West	(5)	261	-	-	-	ZRAOP
Alconheir	(7)	300	680	3800	2600	Q-K R
ANM	(8)	430	1099 *	4538	3751 *	Q-HR
BLAUWHUIS	(14)	324	743	4075	2649	---
FRIDOLIN	(15)	411	894	4402	2770	BWK R
HIDU	(16)	322	741	3436	2756	ZUH R
PAULINE	(18)	413	777	5144	3173	Z-H R
RIZA-IMLO	(20)	414	775	3593	2730	D-AOP
ANALGEO	(21)	340	632	2990	1870	DNZ R
EXACT	(28)	240	640	3400	2300	Q-K R
ANATEK	(29)	613 **	1241 **	5400 *	3963 *	Q-H R
ELML	(33)	340	820	3830	2070	QZH R
WELLAB	(35)	327	776	3497	2630	BRHR
US	(39)	336	991	5041	2628	FHAOP
LAS	(48)	516 <	672	3740	1850	ZVAOP
CHEMLABSIT	(52)	261	531	3530	2110	---
ATM	(54)	1160 **	2510 **	9220 **	6890 **	F-A P
32A	(56)	400	830	4080	2910	Z-HS
HILL	(58)	160	410 *	4400	1600	ZXHR
ARCHIMEDES	(59)	343	748	3362	2205	Z-H R
GGM	(60)	392	846	4100	3100	ZVZ R
ULS	(61)	255	776	3996	2504	Q-H R
COMALAB	(67)	261	627	3709	2317	BZHR
QSANAL	(76)	272	670	3532	2235	Z-H R
BOREALIS	(78)	296	698	2823	1678	---
TECHHK	(79)	355	681	4600	3060	Q-HR
EPILAB-1A	(87)	325	780	4240	2750	QWHJA
GAL	(91)	341	786	4658	2781	A-H R
STCRSC	(92)	180	431 *	2851	1838	J-J R
VERITAS	(101)	368	687	3760	2221	JZK R
RECKENHOLZ	(108)	233	622	3648	2553	BHK R
THO1808MAS	(110)	266	635	2787	2045	ZRH R
APVROPAVA	(112)	299	629	3585	2242	QWA P
ORGDIMCH	(120)	410	782	4204	2982	ZZZ R
HHAFU	(134)	272	589	3050	2027	QRH R
CH-SAMEN	(469)	330	679	4864	2482	Q-HR
ECCM	(841)	224	619	3990	2550	JAHR
LAB607	(862)	443	772	1934 *	3569	B-HR

	Summary Statistics			
NDA mean	318.5	723.3	3811	2508
NDA st dev	80.9	134.8	766	535
N	46	46	47	47

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
chrysene (µg/kg)	(cont.)					
CNRLBR	(875)	239	521	2967	2129	ZUH R
LABAMB	(878)	325	712	3715	2675	J-K R
TAMPERE	(911)	716 **	287 **	4330	2740	Q-HR
SHI	(912)	380	884	3320	2840	QAH R
WANDSCH	(958)	289	739	3070	2294	Q-JR
LUNLAB	(1052)	289	844	5472 *	3176	TWHR
PA2010LAB	(1058)	377	885	4281	2916	ZWH R

	Statistical Results			
NDA mean	318.5	723.3	3811	2508
NDA st dev	80.9	134.8	766	535
N	46	46	47	47
Median	325.0	740.0	3760	2600
MAD	57.0	95.0	521	365

dibenz(ah)anthracene (µg/kg)						
BOANALHOAG	(2)	44.0	36 *	318 *	362	QWH R
MLABTW	(4)	60.0 <	92	373	435	ZWAOP
Alconheir	(7)	80.0	100	590	400	Q-K R
ANM	(8)	63.8	108	604	413	Q-HR
FRIDOLIN	(15)	50.3	85	397	339	BWK R
HIDU	(16)	50.0	121	698	526	ZUH R
PAULINE	(18)	82.0	125	854	537	Z-H R
RIZA-IMLO	(20)	43.6	74	486	315	D-AOP
ANALGEO	(21)	83.0	128	674	484	DNZ R
ANATEK	(29)	59.1	110	682	842 **	Q-H R
ELML	(33)	50.0 <	80	670	370	QZH R
WELLAB	(35)	61.2	99	580	453	BRHR
US	(39)	100.0 *	190 *	980 *	760 **	FHAOP
LAS	(48)	206.0 <	204 <	981 *	913 **	ZVAOP
CHEMLABSIT	(52)	42.0	75	519	287	---
32A	(56)	60.0	100	570	410	Z-HS
HILL	(58)	35.0	74	550	380	ZXHR
ARCHIMEDES	(59)	-	-	411	299	Z-H R
GGM	(60)	70.1	135	720	460	ZVZ R
ULS	(61)	51.0	125	695	394	Q-H R
COMALAB	(67)	100.0 <	128	625	413	BZHR
QSANAL	(76)	36.0	84	439	352	Z-H R
BOREALIS	(78)	51.3	108	505	477	---
TECHHK	(79)	74.0	122	590	529	Q-HR
EPILAB-1A	(87)	61.0	125	840	525	QWHJA
GAL	(91)	50.0	111	645	609	A-H R
STCRSC	(92)	101.0 *	181 *	794	536	J-J R
VERITAS	(101)	48.0	85	667	462	JZK R
RECKENHOLZ	(108)	57.5	102	502	398	BHK R
THO1808MAS	(110)	52.4	93	362	351	ZRH R
APVROPAVA	(112)	47.9	86	538	473	QWA P
ORGDIMCH	(120)	79.4	136	642	473	ZZZ R
HHAFU	(134)	72.6	111	547	433	QRH R
CH-SAMEN	(469)	361.0 **	436 **	3081 **	1562 **	Q-HR
ECCM	(841)	35.1	80	608	335	JAHR
LAB607	(862)	34.0	49	152 **	238	B-HR
CNRLBR	(875)	54.0	101	574	429	ZUH R
LABAMB	(878)	62.0	110	674	485	J-K R
TAMPERE	(911)	97.8 *	43	706	381	Q-HR
SHI	(912)	70.9	122	673	521	QAH R
WANDSCH	(958)	24.0	36 *	239 *	215 *	Q-JR
LUNLAB	(1052)	300.0 <	300 <	-	-	TWHR
PA2010LAB	(1058)	61.4	101	582	419	ZWH R

	Summary Statistics			
NDA mean	56.83	101.8	599.7	423.2
NDA st dev	17.71	29.4	132.5	93.9
N	37	40	42	42

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample	791	792	784	776	MIC
dibenz(ah)anthracene (µg/kg) (cont.)					
	===== Statistical Results =====				
NDA mean	56.83	101.8	599.7	423.2	
NDA st dev	17.71	29.4	132.5	93.9	
N	37	40	42	42	
Median	59.10	101.3	597.0	431.0	
MAD	11.80	20.7	88.3	65.0	
=====					
fluoranthene (µg/kg)					
ZINDZIWE (1)	-	-	7800	8100	--A E
BOANALHOAG (2)	289 *	685 **	3676 **	7347	QWH R
MLABTW (4)	554	1316	9471 *	6977	ZWAOP
AL-West (5)	464	-	-	-	ZRAOP
Alconheir (7)	630	1400	6700	8200	Q-K R
ANM (8)	630	1660	6837	8822	Q-HR
BLAUWHUIS (14)	515	1125	6722	7634	---
FRIDOLIN (15)	643	1420	7653	8728	BWK R
HIDU (16)	500	1131	4745 *	7973	ZUH R
PAULINE (18)	672	1377	9442 *	10400	Z-H R
RIZA-IMLO (20)	596	1195	7127	9807	D-AOP
ANALGEO (21)	727	1547	6050	6800	DNZ R
EXACT (28)	600	1500	6700	9100	Q-K R
ANATEK (29)	779 *	1714	10161 **	11900 **	Q-H R
ELML (33)	580	1480	8220	8630	QZH R
WELLAB (35)	639	1506	6726	8151	BRHR
US (39)	600	1580	7440	8780	FHAOP
LAS (48)	617	1530	7330	8640	ZVAOP
CHEMLABSIT (52)	607	1420	7440	8520	---
ATM (54)	640	1410	7610	9570	F-A P
32A (56)	640	1590	7400	8970	Z-HS
HILL (58)	320 *	890 *	9300 *	9100	ZXHR
ARCHIMEDES (59)	548	1256	6816	7445	Z-H R
GGM (60)	535	1287	7650	8550	ZVZ R
ULS (61)	397	1414	7256	9112	Q-H R
COMALAB (67)	486	1175	7365	7347	BZHR
QSANAL (76)	580	1157	6347	7505	Z-H R
BOREALIS (78)	690	2056 **	7676	9781	---
TECHHK (79)	312 *	891 *	7590	7560	Q-HR
EPILAB-1A (87)	458	1435	6540	7600	QWHJA
GAL (91)	535	1281	8514	8553	A-H R
STCRSC (92)	355	955	5601	6393	J-J R
VERITAS (101)	600	1318	6938	7110	JZK R
RECKENHOLZ (108)	492	1343	7433	9140	BHK R
THO1808MAS (110)	567	1580	6570	8210	ZRH R
APVROPAVA (112)	524	1191	6910	8196	QWA P
ORGDIMCH (120)	652	1558	7937	9293	ZZR R
HHAUFU (134)	561	1310	5815	6023 *	QRH R
CH-SAMEN (469)	674	1575	7676	9853	Q-HR
ECCM (841)	432	1310	10500 **	8950	JAHR
LAB607 (862)	424	1002	6306	5203 **	B-HR
CNRLBR (875)	524	1232	6239	9210	ZUH R
LABAMB (878)	553	1429	7464	9211	J-K R
CHE (887)	397	888 *	5370	4700 **	ZYHR
TAMPERE (911)	1310 **	427 **	8000	9440	Q-HR
SHI (912)	728	1870 *	6680	8340	QAH R
WANDSCH (958)	488	1455	6442	7955	Q-JR
LUNLAB (1052)	534	1266	9281 *	8438	TWHR
PA2010LAB (1058)	578	1489	6626	7461	ZWH R
	===== Statistical Results =====				
NDA mean	564.4	1372	7117	8429	
NDA st dev	107.2	225	891	1069	
N	48	47	48	48	
Median	564.0	1377	7293	8479	
MAD	73.2	153	603	732	
=====					

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
fluorene (µg/kg)						
BOANALHOAG	(2)	34.0	54	139	7814	QWH R
MLABTW	(4)	60.0 <	96	8929 **	199 **	ZWAOP
Alconheir	(7)	90.0	120	250	8000	Q-K R
ANM	(8)	62.2	103	247	9150	Q-HR
FRIDOLIN	(15)	72.7	126	226	9765	BWK R
HIDU	(16)	74.0	147	217	7340	ZUH R
PAULINE	(18)	82.0	123	351 *	9971	Z-H R
RIZA-IMLO	(20)	63.2	93	201	8506	D-AOP
ANALGEO	(21)	85.0	128	227	5330 *	DNZ R
ANATEK	(29)	136.7 **	197 *	429 **	13050 **	Q-H R
ELML	(33)	80.0	130	290	1130 **	QZH R
WELLAB	(35)	78.8	135	236	7387	BRHR
US	(39)	100.0	140	250	11130 *	FHAOP
LAS	(48)	77.4	132	270	6930	ZVAOP
CHEMLABSIT	(52)	57.0	84	212	7240	---
32A	(56)	90.0	160	300	9460	Z-HS
HILL	(58)	41.0	69	154	8600	ZXHR
ARCHIMEDES	(59)	-	-	161	7314	Z-H R
GGM	(60)	82.5	122	260	9435	ZVZ R
ULS	(61)	59.0	114	275	15013 **	Q-H R
COMALAB	(67)	100.0 <	100 <	260	4783 *	BZHR
QSANAL	(76)	61.0	110	179	7344	Z-H R
BOREALIS	(78)	53.1	87	190	6214	---
TECHHK	(79)	79.0	124	285	8830	Q-HR
EPILAB-1A	(87)	51.0	92	240	9200	QWHJA
GAL	(91)	52.0	80	192	6994	A-H R
STCRSC	(92)	67.0	108	169	6772	J-J R
VERITAS	(101)	63.0	89	229	8001	JZK Z
RECKENHOLZ	(108)	53.0	99	201	8153	BHK R
THO1808MAS	(110)	45.0	80	170	7685	ZRH R
APVROPAVA	(112)	50.4	88	210	7689	QWA P
ORGDIMCH	(120)	83.4	134	278	8552	ZZZ R
HHAFU	(134)	75.9	132	258	8064	QRH R
CH-SAMEN	(469)	87.6	142	277	9018	Q-HR
ECCM	(841)	50.3	79	274	11200 *	JAHR
LAB607	(862)	64.0	122	262	8025	B-HR
CNRLBR	(875)	57.7	100	175	7681	ZUH R
LABAMB	(878)	78.0	136	236	8710	J-K R
TAMPERE	(911)	82.7	50 *	205	9610	Q-HR
SHI	(912)	67.3	113	268	8650	QAH R
WANDSCH	(958)	35.0	64	164	8922	Q-JR
LUNLAB	(1052)	91.0	156	341 *	8409	TWHR
PA2010LAB	(1058)	61.8	121	224	6965	ZWH R

	Statistical Results			
NDA mean	68.28	111.9	232.4	8183
NDA st dev	19.99	30.5	52.1	1249
N	40	41	43	43
Median	67.15	114.0	236.0	8064
MAD	14.08	20.8	35.5	858

indeno(1,2,3-cd)pyrene (µg/kg)						
ZINDZIWE	(1)	-	-	3500	3200 **	--A E
BOANALHOAG	(2)	52 *	108 **	1432 *	1387	QWH R
MLABTW	(4)	346	648 *	2568	3298 **	ZWAOP
AL-West	(5)	243	-	-	-	ZRAOP
Alconheir	(7)	280	420	2400	1600	Q-K R
ANM	(8)	226	351	1626	1297	Q-HR
BLAUWHUIS	(14)	195	371	2302	1523	---
FRIDOLIN	(15)	210	245 *	2478	1550	BWK R

	Summary Statistics				
NDA mean	239.9	420.4	2746	1683	
NDA st dev	66.3	81.2	645	371	
N	48	47	48	48	(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample	791	792	784	776	MIC
indeno(1,2,3-cd)pyrene (µg/kg) (cont.)					
HIDU (16)	254	474	3124	1995	ZUH R
PAULINE (18)	314	500	4016	2139	Z-H R
RIZA-IMLO (20)	270	447	2834	1911	D-AOP
ANALGEO (21)	300	480	2690	1744	DNZ R
EXACT (28)	210	370	2700	1700	Q-K R
ANATEK (29)	252	501	3165	3419 **	Q-H R
ELML (33)	190	410	2770	1460	QZH R
WELLAB (35)	276	440	2714	1787	BRHR
US (39)	296	577	3632	2334	FHAOP
LAS (48)	320	431	3180	2050	ZVAOP
CHEMLABSIT (52)	334	580	3840	1800	---
ATM (54)	280	460	3050	2120	F-A P
32A (56)	220	380	2390	1580	Z-HS
HILL (58)	115	250 *	2000	1220	ZXHR
ARCHIMEDES (59)	292	487	2163	1323	Z-H R
GGM (60)	193	355	2589	1764	ZVZ R
ULS (61)	194	475	2948	1792	Q-H R
COMALAB (67)	216	380	2819	1413	BZHR
QSANAL (76)	182	336	2512	1718	Z-H R
BOREALIS (78)	350	735 **	3619	2678 *	---
TECHHK (79)	308	564	3430	2250	Q-HR
EPILAB-1A (87)	157	365	2380	1400	QWHJA
GAL (91)	227	432	3520	1715	A-H R
STCRSC (92)	236	461	2081	1335	J-J R
VERITAS (101)	301	437	3219	1994	JZK R
RECKENHOLZ (108)	202	411	2520	1708	BHK R
THO1808MAS (110)	220	412	2593	1768	ZRH R
APVROPAVA (112)	230	398	2671	1634	QWA P
ORGDIMCH (120)	253	450	4507 *	2326	ZZZ R
HHAFU (134)	252	385	1923	1441	QRH R
CH-SAMEN (469)	508 **	678 **	5125 **	3244 **	Q-HR
ECCM (841)	180	441	3220	1560	JAHR
LAB607 (862)	144	227 *	754 **	1151	B-HR
CNRLBR (875)	203	369	2222	1574	ZUH R
LABAMB (878)	162	333	2215	1523	J-K R
CHE (887)	363	576	3910	1860	ZYHR
TAMPERE (911)	343	144 **	2730	1350	Q-HR
SHI (912)	211	398	1770	1350	QAH R
WANDSCH (958)	203	375	2965	1974	Q-JR
LUNLAB (1052)	185	354	2695	1909	TWHR
PA2010LAB (1058)	281	487	3042	1835	ZWH R

	Statistical Results			
NDA mean	239.9	420.4	2746	1683
NDA st dev	66.3	81.2	645	371
N	48	47	48	48
Median	233.0	420.0	2707	1731
MAD	45.0	55.0	437	264

naphtalene (µg/kg)					
ZINDZIWE (1)	-	-	360	2200	--A E
BOANALHOAG (2)	45	53	127	1366	QWH R
MLABTW (4)	149	164	1750 **	326	ZWAOP
AL-West (5)	65	-	-	-	ZRAOP
Alconheintr (7)	190	140	400	2300	Q-K R
ANM (8)	121	127	372	2469	Q-HR
BLAUWHUIS (14)	118	100	366	2028	---
FRIDOLIN (15)	207	232	632	3314	BWK R
HIDU (16)	123	153	667	2813	ZUH R
PAULINE (18)	152	146	476	2297	Z-H R

	Summary Statistics				
NDA mean	139.7	153.3	442.0	2382	
NDA st dev	56.2	66.0	217.2	1028	
N	45	45	46	46	(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
naphtalene (µg/kg) (cont.)						
RIZA-IMLO	(20)	159	189	676	3479	D-AOP
EXACT	(28)	120	120	390	2300	Q-K R
ANATEK	(29)	263 *	265	810	4405	Q-H R
ELML	(33)	200	210	650	3130	QZH R
WELLAB	(35)	170	176	443	2321	BRHR
US	(39)	303 *	311 *	803	3729	FHAOP
LAS	(48)	286 *	270	1020 *	4180	ZVAOP
CHEMLABSIT	(52)	118	98	268	1520	---
ATM	(54)	140	120	300	2120	F-A P
32A	(56)	230	250	690	3640	Z-HS
HILL	(58)	100	110	400	2000	ZXHR
ARCHIMEDES	(59)	120	130	341	1996	Z-H R
GGM	(60)	140	146	310	1844	ZVZ R
ULS	(61)	109	174	478	3310	Q-H R
COMALAB	(67)	100 <	124	402	1263	BZHR
QSANAL	(76)	250	279	773	3667	Z-H R
BOREALIS	(78)	221	250	797	3899	---
TECHHK	(79)	210	233	716	3460	Q-HR
EPILAB-1A	(87)	59	68	181	850	QWHJA
GAL	(91)	182	251	589	3642	A-H R
STCRSC	(92)	109	112	353	1918	J-J R
VERITAS	(101)	161	201	503	2532	JZK R
RECKENHOLZ	(108)	181	231	569	3245	BHK R
THO1808MAS	(110)	130	151	454	2223	ZRH R
APVROPAVA	(112)	147	138	340	2000	QWA P
ORGDIMCH	(120)	314 **	333 *	1052 *	4994 *	ZZZ R
HHAFU	(134)	165	180	551	2552	QRH R
CH-SAMEN	(469)	107	62	235	1590	Q-HR
ECCM	(841)	87	120	314	1840	JAHR
LAB607	(862)	103	147	270	1463	B-HR
CNRLBR	(875)	183	163	502	2873	ZUH R
LABAMB	(878)	122	135	423	1985	J-K R
CHE	(887)	30	44	169	624	ZYHR
TAMPERE	(911)	97	89	250	1620	Q-HR
SHI	(912)	104	115	323	2280	QAH R
WANDSCH	(958)	38	44	155	1002	Q-JR
PA2010LAB	(1058)	158	222	670	2553	ZWH R

	Statistical Results			
NDA mean	139.7	153.3	442.0	2382
NDA st dev	56.2	66.0	217.2	1028
N	45	45	46	46
Median	140.0	147.0	432.8	2299
MAD	37.0	42.3	146.3	694

phenanthrene (µg/kg)						
ZINDZIWE	(1)	-	-	2900	24000	--A E
BOANALHOAG	(2)	136 *	185 **	1392 **	23010	QWH R
MLABTW	(4)	286	383	27465 **	2690 **	ZWAOP
AL-West	(5)	185	-	-	-	ZRAOP
Alconheir	(7)	360	400	2700	26000	Q-K R
ANM	(8)	281	362	2671	28170	Q-HR
BLAUWHUIS	(14)	237	316	2351	22920	---
FRIDOLIN	(15)	319	414	2800	27000	BWK R
HIDU	(16)	322	453	2984	24420	ZUH R
PAULINE	(18)	303	368	3416	30330	Z-H R
RIZA-IMLO	(20)	354	377	3290	28040	D-AOP
ANALGEO	(21)	438 *	503 *	2680	17600 *	DNZ R
EXACT	(28)	290	400	2900	25000	Q-K R
ANATEK	(29)	492 **	574 **	3872 **	28990	Q-H R

	Summary Statistics				
NDA mean	292.6	393.9	2804	24889	
NDA st dev	56.6	50.0	310	3280	
N	47	46	47	47	(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample		791	792	784	776	MIC
phenanthrene (µg/kg) (cont.)						
ELML	(33)	330	400	2800	27600	QZH R
WELLAB	(35)	366	480	2616	23140	BRHR
US	(39)	310	390	2830	32090 *	FHAOP
LAS	(48)	413 *	483	3590 *	26700	ZVAOP
CHEMLABSIT	(52)	275	351	2640	22500	---
ATM	(54)	320	410	3000	27940	F-A P
32A	(56)	340	420	2960	26210	Z-HS
HILL	(58)	179 *	260 *	2000 *	28000	ZXHR
ARCHIMEDES	(59)	258	374	2548	24230	Z-H R
GGM	(60)	242	334	2914	26500	ZVZ R
ULS	(61)	256	401	3100	24910	Q-H R
COMALAB	(67)	239	353	3099	17610 *	BZHR
QSANAL	(76)	348	453	2775	22490	Z-H R
BOREALIS	(78)	308	433	3192	15020 **	---
TECHHK	(79)	302	404	2990	25200	Q-HR
EPILAB-1A	(87)	240	415	2340	24500	QWHJA
GAL	(91)	326	441	3349	28440	A-H R
STCRSC	(92)	225	367	2153 *	22500	J-J R
VERITAS	(101)	334	415	2754	23920	JZK R
RECKENHOLZ	(108)	280	393	3082	25550	BHK R
THO1808MAS	(110)	266	367	2480	22430	ZRH R
APVROPAVA	(112)	242	338	2643	23810	QWA P
ORGDIMCH	(120)	409 *	539 *	3359	23250	ZZZ R
HHAFU	(134)	270	367	2602	19990	QRH R
CH-SAMEN	(469)	443 *	348	2584	22220	Q-HR
ECCM	(841)	268	416	3800 **	35000 **	Jahr
LAB607	(862)	252	354	2602	15170 *	B-HR
CNRLBR	(875)	280	376	2643	28700	ZUH R
LABAMB	(878)	318	442	2809	26750	J-K R
TAMPERE	(911)	313	243 **	2750	32400 *	Q-HR
SHI	(912)	275	360	2810	22200	QAHR
WANDSCH	(958)	165 *	221 **	2165 *	23260	Q-JR
LUNLAB	(1052)	342	431	4298 **	20480	TWHR
PA2010LAB	(1058)	273	423	2891	23990	ZWH R

	Statistical Results			
NDA mean	292.6	393.9	2804	24889
NDA st dev	56.6	50.0	310	3280
N	47	46	47	47
Median	290.0	396.7	2809	24421
MAD	38.0	34.5	207	2199

pyrene (µg/kg)						
BOANALHOAG	(2)	203 *	530 **	2595 **	4352	QWH R
MLABTW	(4)	402	1076	5880	5130	ZWAOP
Alconheinr	(7)	500	1300	5100	5500	Q-K R
ANM	(8)	541	1490	5298	5886	Q-HR
FRIDOLIN	(15)	525	1380	5309	6028	BWK R
HIDU	(16)	496	1472	4971	6386	ZUH R
PAULINE	(18)	10 < **	1124	7191 *	6519	Z-H R
RIZA-IMLO	(20)	526	1075	5618	5983	D-AOP
ANALGEO	(21)	598	1294	4640	4660	DNZ R
ANATEK	(29)	699 *	1666 *	8174 **	8629 **	Q-H R
ELML	(33)	490	1280	6530	4970	QZH R
WELLAB	(35)	503	1249	5091	5534	BRHR
US	(39)	520	1440	5930	6060	FHAOP
LAS	(48)	553	1350	5920	6890	ZVAOP
CHEMLABSIT	(52)	405	982	5760	4590	---
32A	(56)	540	1390	5760	6190	Z-HS
HILL	(58)	250 *	720 *	6700	5700	ZXHR

	Summary Statistics			
NDA mean	457.6	1179	5494	5624
NDA st dev	96.3	187	702	816
N	41	42	43	43

(cont.)

SETOC 2012.1 - Polycyclic aromatic hydrocarbons

Sample	791	792	784	776	MIC
pyrene (µg/kg) (cont.)					
ARCHIMEDES (59)	-	-	5268	5001	Z-H R
GGM (60)	421	1092	6226	6348	ZVZ R
ULS (61)	332	1177	5652	6730	Q-H R
COMALAB (67)	374	1162	5861	5150	BZHR
QSANAL (76)	413	995	4741	4718	Z-H R
BOREALIS (78)	583	1835 **	6082	7567 *	---
TECHHK (79)	310	854	5790	5170	Q-HR
EPILAB-1A (87)	378	1150	4940	5000	QWHJA
GAL (91)	420	1197	6441	5189	A-H R
STCRSC (92)	303	814	4480	4333	J-J R
VERITAS (101)	478	1101	5383	5067	JZK R
RECKENHOLZ (108)	388	1061	5354	5740	BHK R
THO1808MAS (110)	485	1425	5114	6040	ZRH R
APVROPAVA (112)	392	971	5021	5651	QWA P
ORGDIMCH (120)	534	1253	6091	6244	ZZZ R
HHAFU (134)	472	1157	4818	4389	QRH R
CH-SAMEN (469)	521	1134	6368	5937	Q-HR
ECCM (841)	399	1180	8140 **	6300	JAHR
LAB607 (862)	412	1062	5398	5347	B-HR
CNRLBR (875)	427	1033	4705	5735	ZUH R
LABAMB (878)	436	1125	5493	5903	J-K R
TAMPERE (911)	1230 **	423 **	6400	6710	Q-HR
SHI (912)	578	1570 *	5100	5870	QAH R
WANDSCH (958)	402	1265	4791	5445	Q-JR
LUNLAB (1052)	433	1053	7348 *	5813	TWHR
PA2010LAB (1058)	472	1261	5101	4939	ZWH R

	Statistical Results			
NDA mean	457.6	1179	5494	5624
NDA st dev	96.3	187	702	816
N	41	42	43	43
Median	471.5	1160	5493	5735
MAD	66.5	124	472	565

SETOC 2012.1 - Polychlorobiphenyls

Sample	791	792	784	776	MIC
PCB 028 (µg/kg)					
ZINDZIWE (1)	-	-	2.000 <	10.0	--HCE
MLABTW (4)	22.7	8.43	3.500 <	20.5 **	ZZK R
AL-West (5)	12.8	-	-	-	ZZH R
Alconheinr (7)	21.0	5.90	2.000 <	2.0 < *	Q-K R
ANM (8)	37.2 **	0.50 <	0.500	0.5 < **	Q-HR
BLAUWHUIS (14)	5.0	0.80 <	0.800 <	11.0	---
FRIDOLIN (15)	10.4	3.68	0.330	9.6	BWK R
HIDU (16)	9.0	2.00	2.000 **	8.0	ZUH Q
PAULINE (18)	7.4	1.00 <	1.000 <	11.1	Z-H R
RIZA-IMLO (20)	12.8	2.67	0.500 <	12.0	DUI Q
ANALGEO (21)	22.0	2.50	0.400	21.0 **	ZNH Q
EXACT (28)	1.0 <	1.00 <	1.000 <	1.0 < **	QRK R
ANATEK (29)	24.0	13.03 *	2.870 **	25.1 **	Q-H R
ELML (33)	2.0 <	2.00 <	2.000 <	2.0 < *	QZH R
WELLAB (35)	11.7	4.68	2.000 <	12.4	BKZQ
US (39)	20.9	7.94	0.700	18.7 *	FHJ Q
JYUIER (41)	13.7	2.50	0.500 <	11.2	ZZI Q
LAS (48)	19.8	6.34	0.300	16.9	ZUH R
HILL (58)	8.9	2.80	1.100 <	10.9	ZXHR
ARCHIMEDES (59)	26.6	10.50	20.000 <	20.0 <	Z-H R
GGM (60)	25.5	7.78	2.000 <	23.2 **	ZVZ R
ULS (61)	5.7	8.01	1.000 <	10.7	JRH R
QSANAL (76)	1.0 <	12.00 *	1.000 <	34.0 **	ZWH R
BOREALIS (78)	13.1	6.68	0.890	11.9	CYH Q
EPILAB-1A (87)	10.0 <	5.00 <	5.000 <	10.0 <	
GAL (91)	5.0 <	5.00	1.000 <	10.0	JXH Q
STCRSC (92)	5.9	1.73	0.370	6.0	JAH Q
VERITAS (101)	10.0 <	10.00 <	10.000 <	10.0 <	JZK R
RECKENHOLZ (108)	0.5 <	0.50 <	0.500 <	0.5 < **	BRK R
THO1808MAS (110)	14.3	4.10	0.500	12.6	ZZJ Q
ORGDIMCH (120)	9.3	3.75	0.261	13.8	ZZZ R
HHAUFU (134)	6.1	1.00 <	8.000 **	6.6	QUH R
ECCM (841)	10.9	2.67	0.321	11.3	BHHR
LAB607 (862)	19.8	14.49 *	1.370 **	19.7 *	BRHR
CNRLBR (875)	15.5	3.33	0.500 <	13.2	ZUH R
LABAMB (878)	10.4	6.12	1.000 <	8.4	J-K R
TLR (900)	12.5	3.24	1.000 <	8.0	DRKR
TAMPERE (911)	2.3	7.10	1.400 **	7.4	Q-HR
WANDSCH (958)	10.0 <	10.00 <	10.000 <	10.0 <	ZUJQ
PA2010LAB (1058)	15.5	5.12	0.330	12.8	BUH R

	Statistical Results			
NDA mean	13.40	5.065	0.4245	10.93
NDA st dev	7.82	3.325	0.2703	3.11
N	31	28	16	30
Median	12.78	5.060	0.5000	11.61
MAD	5.41	2.324	0.2000	2.10

PCB 031 (µg/kg)					
HILL (58)	10.20	5.80	1.100 <	10.10	ZXHR
ORGDIMCH (120)	7.91	491.00	0.133	7.10	ZZZ R
LABAMB (878)	7.02	3.40	1.000 <	5.85	J-K R
TLR (900)	13.90	3.20	1.000 <	7.90	DRKR

	Statistical Results (no NDA)			
N	4	4	1	4
Median	9.057	4.600	0.1330	7.502
MAD	1.590	1.300	-	1.025

SETOC 2012.1 - Polychlorobiphenyls

Sample	791	792	784	776	MIC
PCB 052 (µg/kg)					
ZINDZIWE (1)	-	-	2.000 <	12.0	--HCE
MLABTW (4)	9.73	3.19	3.500 <	19.1	ZZK R
AL-West (5)	11.47	-	-	-	ZZH R
Alconheinr (7)	14.00	7.40 *	2.000 <	19.0	Q-K R
ANM (8)	25.10 **	30.10 **	7.340 **	50.2 **	Q-HR
BLAUWHUIS (14)	6.08	2.69	0.800 <	14.2	
FRIDOLIN (15)	9.19	3.01	0.400	17.3	BWK R
HIDU (16)	7.00	3.00	1.000 <	15.0	ZUH Q
PAULINE (18)	7.82	42.20 **	1.000 <	14.8	Z-H R
RIZA-IMLO (20)	11.12	3.53	0.898	20.9	DUI Q
ANALGEO (21)	17.00 **	2.10	0.500	30.0 **	ZNH Q
EXACT (28)	9.50	4.70	1.400	19.0	QRK R
ANATEK (29)	19.03 **	46.04 **	14.130 **	50.7 **	Q-H R
ELML (33)	10.40	2.30	7.400 **	35.0 **	QZH R
WELLAB (35)	8.44	2.00 <	2.000 <	14.0	BKZQ
US (39)	10.18	3.36	0.700	16.8	FHJ Q
JYUIER (41)	11.35	3.26	0.500 <	17.5	ZZI Q
LAS (48)	10.50	3.46	0.270	20.5	ZUHR
HILL (58)	8.10	4.70	1.100 <	18.7	ZXHR
ARCHIMEDES (59)	17.37 **	1.00 <	20.000 <	20.0 <	Z-H R
GGM (60)	8.40	3.15	2.000 <	17.1	ZVZ R
ULS (61)	4.42 *	4.17	2.000 <	16.3	JRH R
QSANAL (76)	15.00 *	21.00 **	6.000 **	28.0 *	ZWH R
BOREALIS (78)	11.50	16.40 **	5.950 **	21.4	CYH Q
EPILAB-1A (87)	10.00 <	5.00 <	5.000 <	10.6	
GAL (91)	5.00 <	2.00	1.000 <	15.0	JXH Q
STCRSC (92)	2.84 *	1.05	0.300	6.0 *	JAH Q
VERITAS (101)	10.00 <	10.00 <	10.000 <	10.0 <	JZK R
RECKENHOLZ (108)	10.31	3.34	0.610	20.0	BRK R
THO1808MAS (110)	10.60	4.78	1.400	15.2	ZRH Q
ORGDIMCH (120)	8.45	3.02	0.319	18.1	ZZZ R
HHAUFU (134)	3.90 *	5.60	13.200 **	13.2	QUH R
ECCM (841)	8.81	3.11	0.423	17.4	BHHR
LAB607 (862)	11.30	4.76	1.260	19.3	BRHR
CNRLBR (875)	10.30	3.49	0.590	18.2	ZUH R
LABAMB (878)	8.34	6.14	1.140	17.8	J-K R
TLR (900)	8.72	2.17	1.000 <	11.6	
TAMPERE (911)	2.20 *	8.00 *	1.500	17.9	Q-HR
WANDSCH (958)	10.00 <	10.00 <	10.000 <	10.0 <	ZUJQ
PA2010LAB (1058)	6.99	2.23	0.200	12.2	BUH R

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Statistical Results
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NDA mean	9.430	3.401	0.7229	16.91
NDA st dev	2.413	1.685	0.7761	3.73
N	35	33	22	36
Median	9.725	3.460	1.0190	17.64
MAD	1.625	1.240	0.6075	2.64

PCB 077 (µg/kg)

ELML (33)	2.000 <	2.000 <	2.0000 <	2.90	QZH R
WELLAB (35)	2.000 <	2.000 <	2.0000 <	2.00 <	
HILL (58)	1.000 <	1.000 <	1.1000 <	2.50	
EPILAB-1A (87)	0.810	0.170	0.0370	2.10	
ORGDIMCH (120)	1.000	0.154	0.0345	2.32	ZZZ R
LABAMB (878)	1.000 <	1.000 <	1.0000 <	3.11	J-K R
PA2010LAB (1058)	0.860	0.100	0.5000	2.53	BUH R

=====
Statistical Results (no NDA)
=====

N	3	3	3	6
Median	0.8600	0.1535	0.03700	2.515
MAD	0.0500	0.0165	0.00250	0.291

SETOC 2012.1 - Polychlorobiphenyls

Sample		791	792	784	776	MIC
PCB 081 (µg/kg)						
HILL	(58)	1.0000 <	1.00000 <	1.10000 <	1.0000 <	
EPILAB-1A	(87)	0.0160	0.00400	0.00100	0.0230	
ORGDIMCH	(120)	0.0090	0.00500	0.00100	0.0470	ZZZ R
LABAMB	(878)	1.0000 <	1.00000 <	1.00000 <	1.0000 <	J-K R
PA2010LAB	(1058)	0.3000	0.17000	0.10000 <	0.3000	BUH R

	Statistical Results (no NDA)			
N	3	3	2	3
Median	0.01600	0.005000	0.001000	0.04700
MAD	0.00700	0.001000	-	0.02400

PCB 101 (µg/kg)						
ZINDZIWE	(1)	-	-	2.00 <	12.0	--HCE
MLABTW	(4)	12.4	4.17	3.50 <	12.0 <	ZZK R
AL-West	(5)	11.8	-	-	-	ZZH R
Alconheinr	(7)	14.0	4.80	2.00 <	19.0	Q-K R
ANM	(8)	16.6	5.63	3.70 **	27.6	Q-HR
BLAUWHUIS	(14)	7.4	3.53	1.24	17.9	--- Z
FRIDOLIN	(15)	13.1	4.31	1.59	25.7	BWK R
HIDU	(16)	10.0	4.00	1.00 <	15.0	ZUH Q
PAULINE	(18)	8.1	62.20 **	1.56	8.7	Z-H R
RIZA-IMLO	(20)	12.4	4.42	1.89	21.8	DUI Q
ANALGEO	(21)	10.0	4.00	1.40	19.0	ZNH Q
EXACT	(28)	12.0	5.00	6.40 **	23.0	QRK R
ANATEK	(29)	13.3	3.30	1.87	18.5	Q-H R
ELML	(33)	8.1	2.80	2.00 <	13.6	QZH R
WELLAB	(35)	10.9	4.08	2.00 <	17.7	BKZQ
US	(39)	10.7	4.93	2.28	17.5	FHJ Q
JYUIER	(41)	12.1	4.15	1.20	19.6	ZZI Q
LAS	(48)	12.2	4.56	1.24	24.2	ZUH R
HILL	(58)	1.7 **	1.00 < **	1.10 <	4.4 *	ZXHR
ARCHIMEDES	(59)	19.3 *	7.20 *	20.00 <	20.0 <	Z-H R
GGM	(60)	11.4	3.94	2.00 <	21.6	ZVZ R
ULS	(61)	7.0	6.07	2.00 <	17.7	JRH R
QSANAL	(76)	14.0	7.00 *	4.00 **	31.0 *	ZWH R
BOREALIS	(78)	10.8	4.17	1.36	23.2	CYH Q
EPILAB-1A	(87)	10.0 <	5.00 <	5.00 <	13.8	
GAL	(91)	5.0 < *	3.00	1.00 <	14.0	JXH Q
STCRSC	(92)	5.9	1.19 *	1.28	12.1	JAH Q
VERITAS	(101)	4.0 *	4.00	10.00 <	6.5 *	JZK R
RECKENHOLZ	(108)	9.7	4.04	1.55	18.4	BRK R
THO1808MAS	(110)	11.4	4.84	1.60	20.3	QZJ Q
ORGDIMCH	(120)	13.8	4.93	1.71	18.6	ZZZ R
HHAFU	(134)	4.0 *	2.90	13.10 **	12.2	QUH R
ECCM	(841)	12.0	5.02	1.77	22.3	BHR
LAB607	(862)	10.5	6.51 *	1.00 <	21.9	BRHR
CNRLBR	(875)	13.6	4.70	1.79	21.8	ZUH R
LABAMB	(878)	12.4	6.76 *	1.81	18.2	J-K R
TLR	(900)	9.2	3.42	1.40	17.4	DRKR
TAMPERE	(911)	3.6 *	7.80 **	2.40 *	16.2	Q-HR
WANDSCH	(958)	10.0 <	10.00 <	10.00 <	10.0 <	ZUJQ
PA2010LAB	(1058)	7.4	3.05	0.53 *	13.5	BUH R

	Statistical Results			
NDA mean	11.09	4.285	1.575	18.25
NDA st dev	2.92	1.032	0.387	5.25
N	36	35	24	36
Median	11.14	4.310	1.655	18.29
MAD	1.96	0.690	0.275	3.60

SETOC 2012.1 - Polychlorobiphenyls

Sample		791	792	784	776	MIC
PCB 105 (µg/kg)						
ELML	(33)	2.00 <	2.000 <	2.000 <	4.70 *	QZH R
WELLAB	(35)	2.00 <	2.000 <	2.000 <	6.04	BKZQ
JYUIER	(41)	1.09	0.500 <	0.500 <	4.28 **	ZZI Q
LAS	(48)	1.41	0.520	0.200 <	8.01	ZUH R
HILL	(58)	1.20	1.000 <	1.100 <	7.50	ZXHR
EPILAB-1A	(87)	1.30	0.660	0.230	8.10	
ORGDIMCH	(120)	1.36	0.670	0.201	8.22	ZZZ R
LABAMB	(878)	1.01	8.660	1.000 <	7.06	J-K R
PA2010LAB	(1058)	1.55	4.580	0.180	8.44	BUH R

	Statistical Results			
NDA mean	-	-	-	7.623
NDA st dev	-	-	-	1.107
N	7	5	3	9
Median	1.300	0.6700	0.2005	7.500
MAD	0.110	0.1500	0.0205	0.722

PCB 114 (µg/kg)						
HILL	(58)	1.0000 <	1.0000 <	1.00000 <	1.000 <	
EPILAB-1A	(87)	0.0490	0.0280	0.00500	0.350	
ORGDIMCH	(120)	0.0690	0.0300	0.01350	0.347	ZZZ R
LABAMB	(878)	1.0000 <	1.0000 <	1.00000 <	1.000 <	J-K R
PA2010LAB	(1058)	0.2500	0.0800	0.10000 <	0.120	BUH R

	Statistical Results (no NDA)			
N	3	3	2	3
Median	0.06900	0.03000	0.009250	0.3470
MAD	0.02000	0.00200	0.004250	0.0030

PCB 118 (µg/kg)						
ZINDZIWE	(1)	-	-	2.000 <	16.0	--HCE
MLABTW	(4)	9.41	5.29	3.500 <	11.0 <	ZZK R
AL-West	(5)	5.81	-	-	-	ZZH R
Alconheir	(7)	8.50	4.20	2.000 <	22.0	Q-K R
ANM	(8)	7.45	2.99	1.730 *	16.6	Q-HR
BLAUWHUIS	(14)	5.15	2.05	0.800 <	17.8	---
FRIDOLIN	(15)	6.77	2.07	0.680	16.7	BWK R
HIDU	(16)	6.00	2.00	1.000 <	13.0	ZUH Q
PAULINE	(18)	5.94	46.60 **	1.000 <	16.3	Z-H R
RIZA-IMLO	(20)	9.16	3.43	1.095	23.4	DUI Q
ANALGEO	(21)	6.60	2.00	0.700	19.0	ZNH Q
EXACT	(28)	6.10	2.60	2.000 **	20.0	QRK R
ANATEK	(29)	10.87 *	9.20 **	2.660 **	30.3 *	Q-H R
ELML	(33)	4.50	2.00 <	2.000 <	14.2	QZH R
WELLAB	(35)	6.76	3.47	2.000 <	16.2	BKZQ
US	(39)	6.64	2.55	1.180	17.6	FHJ Q
JYUIER	(41)	7.82	2.03	0.520	18.6	ZZI Q
LAS	(48)	7.62	2.62	0.650	23.4	ZUH R
HILL	(58)	6.60	2.60	1.100 <	23.0	ZXHR
ARCHIMEDES	(59)	20.27 **	5.20	20.000 <	20.0 <	Z-H R
GGM	(60)	7.20	2.51	2.000 <	23.5	ZVZ R
ULS	(61)	4.58	6.32 *	2.000 <	20.8	JRH R
QSANAL	(76)	11.00 **	6.00 *	3.000 **	29.0 *	ZWH R
BOREALIS	(78)	7.65	3.23	0.700	27.1	CYH Q
EPILAB-1A	(87)	6.90	2.70	0.840	16.4	
GAL	(91)	5.00 <	2.00	1.000 <	14.0	JXH Q
VERITAS	(101)	10.00 <	1.00	10.000 <	2.0 **	JZK R
RECKENHOLZ	(108)	6.30	1.98	0.780	19.1	BRK R
THO1808MAS	(110)	6.70	3.16	1.000	20.8	ZRH Q

	Summary Statistics			
NDA mean	6.857	2.843	0.8456	19.07
NDA st dev	1.347	1.283	0.3482	4.27
N	33	33	19	34

(cont.)

SETOC 2012.1 - Polychlorobiphenyls

Sample		791	792	784	776	MIC
PCB 118 (µg/kg)	(cont.)					
ORGDIMCH	(120)	8.47	3.12	0.844	26.0	ZZZ R
LAB607	(862)	7.28	3.35	1.000 <	18.6	BRHR
CNRLBR	(875)	7.65	2.43	0.730	21.8	ZUH R
LABAMB	(878)	5.49	3.80	1.220	20.5	J-K R
TLR	(900)	4.72	1.60	1.000 <	14.9	DRKR
TAMPERE	(911)	1.90 **	4.50	1.600 *	15.9	Q-HR
WANDSCH	(958)	10.00 <	10.00 <	10.000 <	17.3	Q-JQ
PA2010LAB	(1058)	8.78	3.59	0.600	24.4	BUH R

	Statistical Results			
NDA mean	6.857	2.843	0.8456	19.07
NDA st dev	1.347	1.283	0.3482	4.27
N	33	33	19	34
Median	6.770	2.990	0.8435	18.82
MAD	0.880	0.920	0.2435	2.87

PCB 123 (µg/kg)						
HILL	(58)	1.20	1.000 <	1.100 <	2.70	
EPILAB-1A	(87)	0.07	0.026	0.009	0.28	
ORGDIMCH	(120)	1.59	0.456	0.268	2.88	ZZZ R
LABAMB	(878)	1.00 <	1.000 <	1.000 <	1.05	J-K R
PA2010LAB	(1058)	1.21	0.280	0.130	0.80	BUH R

	Statistical Results (no NDA)			
N	4	3	3	5
Median	1.205	0.2800	0.1300	1.050
MAD	0.194	0.1760	0.1210	0.770

PCB 126 (µg/kg)						
WELLAB	(35)	2.0000 <	2.0000 <	2.0000 <	2.000 <	
HILL	(58)	1.0000 <	1.0000 <	1.0000 <	1.000 <	
EPILAB-1A	(87)	0.0210	0.0130	0.0060	0.190	
ORGDIMCH	(120)	0.0355	0.0175	0.0195	0.241	ZZZ R
LABAMB	(878)	1.0000 <	1.0000 <	1.0000 <	1.000 <	J-K R
PA2010LAB	(1058)	0.1300	0.1000 <	0.1000 <	0.090	BUH R

	Statistical Results (no NDA)			
N	3	2	2	3
Median	0.03550	0.01525	0.01275	0.1900
MAD	0.01450	0.00225	0.00675	0.0505

PCB 128 (µg/kg)						
WELLAB	(35)	2.00 <	2.00 <	2.000 <	3.33	BKZQ
JYUIER	(41)	1.72	0.67	0.530	3.91	ZZI Q
LAS	(48)	2.47	1.03	0.840	6.23	ZUH R
ORGDIMCH	(120)	2.23	1.04	1.005	4.87	ZZZ R
LABAMB	(878)	1.71	2.48	1.880	4.42	J-K R

	Statistical Results (no NDA)			
N	4	4	4	5
Median	1.975	1.036	0.9225	4.420
MAD	0.260	0.186	0.2375	0.510

PCB 138 (µg/kg)						
ZINDZIWE	(1)	-	-	2.00 <	11.0	--HCE
MLABTW	(4)	12.6	5.02	5.78	17.4	ZZK R
AL-West	(5)	11.1	-	-	-	ZZH R

	Summary Statistics			
NDA mean	10.74	5.141	3.791	19.28
NDA st dev	4.05	1.569	1.483	5.66
N	38	35	34	38

(cont.)

SETOC 2012.1 - Polychlorobiphenyls

Sample		791	792	784	776	MIC
PCB 138 (µg/kg) (cont.)						
Alconheir	(7)	14.0	6.70	4.50	29.0	Q-K R
ANM	(8)	16.5	8.60 *	9.02 **	23.3	Q-HR
BLAUWHUIS	(14)	7.9	3.65	2.78	19.7	---
FRIDOLIN	(15)	12.6	4.49	3.06	20.8	BWK R
HIDU	(16)	10.0	4.00	4.00	15.0	ZUH Q
PAULINE	(18)	10.7	101.20 **	4.78	13.6	Z-H R
RIZA-IMLO	(20)	16.8	14.67 **	8.03 *	41.4 **	DUI Q
ANALGEO	(21)	12.0	5.40	4.40	22.0	ZNH Q
EXACT	(28)	9.1	4.70	11.00 **	19.0	QRK R
ANATEK	(29)	14.6	4.11	5.76	26.5	Q-H R
ELML	(33)	10.3	4.40	3.60	19.9	QZH R
WELLAB	(35)	7.0	5.06	2.17	12.1	BKZQ
US	(39)	21.2 *	6.00	2.48	16.8	FHJ Q
JYUIER	(41)	11.6	4.91	2.60	20.9	ZZI Q
LAS	(48)	11.3	5.46	2.83	25.1	ZUH R
HILL	(58)	14.0	6.90	4.20	30.0	ZXHR
ARCHIMEDES	(59)	21.1 *	8.30 *	50.00 <	50.0 <	Z-H R
GGM	(60)	14.6	5.81	4.07	29.7	ZVZ R
ULS	(61)	9.7	6.42	3.91	24.9	JRH R
QSANAL	(76)	24.0 **	15.00 **	12.00 **	42.0 **	ZWH R
BOREALIS	(78)	11.0	5.46	3.55	19.4	CYH Q
EPILAB-1A	(87)	10.0 <	5.00 <	5.00 <	15.8	
GAL	(91)	6.0	5.00	4.00	17.0	JXH Q
STCRSC	(92)	6.1	2.95	3.17	14.6	JAH Q
VERITAS	(101)	7.5	10.00 <	10.00 <	7.5 *	JZK R
RECKENHOLZ	(108)	6.2	2.96	2.46	12.7	BRK R
THO1808MAS	(110)	12.6	5.51	3.50	20.9	ZRH Q
ORGDIMCH	(120)	13.8	6.13	4.86	29.9	ZZZ R
HHAFU	(134)	5.0	4.30	16.80 **	18.1	QUH R
ECCM	(841)	8.1	4.12	3.36	17.5	BHHR
LAB607	(862)	14.4	8.04	5.54	28.5	BRHR
CNRLBR	(875)	11.9	4.96	3.43	20.6	ZUH R
LABAMB	(878)	8.5	11.13 **	5.49	23.4	J-K R
TLR	(900)	8.5	3.59	3.14	17.2	DRKR
TAMPERE	(911)	5.6	8.70 *	6.40	18.9	Q-HR
WANDSCH	(958)	10.1	10.00 <	10.00 <	16.7	ZUJQ
PA2010LAB	(1058)	9.3	5.26	1.94	15.4	BUH R

	Statistical Results			
NDA mean	10.74	5.141	3.791	19.28
NDA st dev	4.05	1.569	1.483	5.66
N	38	35	34	38
Median	11.05	5.400	4.000	19.55
MAD	2.83	1.100	1.055	3.80

PCB 149 (µg/kg)						
HILL	(58)	12.6	5.40	5.00	20.0	ZXHR
GAL	(91)	4.0	6.00	4.00	14.0	JXH Q
LABAMB	(878)	9.3	9.23	7.68	16.4	J-K R
TLR	(900)	11.5	4.49	5.32	16.1	

	Statistical Results (no NDA)			
N	4	4	4	4
Median	10.42	5.700	5.160	16.24
MAD	1.63	0.755	0.660	1.19

PCB 153 (µg/kg)						
ZINDZIWE	(1)	-	-	2.80	14.0	--HCE
MLABTW	(4)	20.3	6.93	6.02 **	23.3	ZZK R

	Summary Statistics				
NDA mean	13.93	6.251	3.387	23.34	
NDA st dev	3.86	1.734	0.853	5.75	
N	38	35	35	38	(cont.)

SETOC 2012.1 - Polychlorobiphenyls

Sample	791	792	784	776	MIC
PCB 153 (µg/kg) (cont.)					
AL-West (5)	13.9	-	-	-	ZZH R
Alconheinr (7)	19.0	9.30	4.40	27.0	Q-K R
ANM (8)	15.1	7.01	5.88 *	20.3	Q-HR
BLAUWHUIS (14)	12.3	5.41	2.73	22.2	---
FRIDOLIN (15)	12.4	4.98	2.62	21.2	BWK R
HIDU (16)	12.0	4.00	3.00	17.0	ZUH Q
PAULINE (18)	10.8	93.30 **	2.90	19.8	Z-H R
RIZA-IMLO (20)	17.8	6.81	4.05	27.3	DUI Q
ANALGEO (21)	17.0	5.90	4.50	28.0	ZNH Q
EXACT (28)	14.0	4.90	13.00 **	24.0	QRK R
ANATEK (29)	11.6	4.38	3.29	19.0	Q-H R
ELML (33)	12.0	5.00	3.00	22.0	QZH R
WELLAB (35)	11.7	6.04	3.03	16.5	BKZQ
US (39)	13.4	7.73	3.18	19.5	FHJ Q
JYUIER (41)	17.9	5.83	2.81	22.4	ZZI Q
LAS (48)	17.1	6.80	3.03	33.2	ZUH R
HILL (58)	14.0	6.50	2.70	28.0	ZXHR
ARCHIMEDES (59)	22.5 *	10.10 *	50.00 <	50.0 <	Z-H R
GGM (60)	10.2	6.24	3.17	26.8	ZVZ R
ULS (61)	10.7	5.93	3.42	26.6	JRH R
QSANAL (76)	25.0 *	16.00 **	10.00 **	46.0 **	ZWH R
BOREALIS (78)	15.8	6.46	2.87	25.6	CYH Q
EPILAB-1A (87)	10.0 <	5.00 <	5.00 <	15.0	
GAL (91)	10.0	6.00	3.00	21.0	JXH Q
STCRSC (92)	9.8	2.60 *	4.22	45.9 **	JAH Q
VERITAS (101)	11.0	10.00 <	10.00 <	11.5 *	JZK R
RECKENHOLZ (108)	14.8	5.92	4.09	29.5	BRK R
THO1808MAS (110)	14.8	6.11	3.20	25.2	ZRH Q
ORGDIMCH (120)	20.8	7.65	4.07	33.7	ZZZ R
HHAFU (134)	6.7	4.90	20.30 **	19.3	QUH R
ECCM (841)	15.3	6.34	4.18	26.8	BHHR
LAB607 (862)	18.7	8.60	4.95	28.5	BRHR
CNRLBR (875)	17.7	6.57	4.18	27.9	ZUH R
LABAMB (878)	13.0	14.13 **	6.76 **	29.6	J-K R
TLR (900)	12.2	5.09	3.26	21.0	DRKR
TAMPERE (911)	4.6 *	8.50	4.80	18.4	Q-HR
WANDSCH (958)	13.0	10.00 <	10.00 <	22.4	ZUJQ
PA2010LAB (1058)	15.1	8.75	3.15	22.3	BUH R

	Statistical Results			
NDA mean	13.93	6.251	3.387	23.34
NDA st dev	3.86	1.734	0.853	5.75
N	38	35	35	38
Median	13.93	6.338	3.290	22.84
MAD	2.63	1.248	0.590	3.97

PCB 156 (µg/kg)					
JYUIER (41)	0.88	0.760	0.500 <	2.35	ZZI Q
HILL (58)	1.20	1.000 <	1.100 <	3.10	ZXHR
EPILAB-1A (87)	1.20	0.560	0.270	2.50	
ORGDIMCH (120)	1.13	0.562	0.398	3.06	ZZZ R
LABAMB (878)	1.00 <	1.000 <	1.000 <	3.12	J-K R
PA2010LAB (1058)	0.99	0.350	0.280	2.57	BUH R

	Statistical Results (no NDA)			
N	5	4	3	6
Median	1.134	0.5610	0.2800	2.815
MAD	0.066	0.1000	0.0100	0.295

SETOC 2012.1 - Polychlorobiphenyls

Sample		791	792	784	776	MIC
PCB 157 (µg/kg)						
HILL	(58)	1.000 <	1.200	1.2000	1.100	
EPILAB-1A	(87)	0.160	0.061	0.0550	0.520	
ORGDIMCH	(120)	0.165	0.070	0.0575	0.644	ZZZ R
LABAMB	(878)	3.170	2.210	1.0000 <	1.780	J-K R
PA2010LAB	(1058)	0.250	0.100 <	0.0700	0.460	BUH R
===== Statistical Results (no NDA) =====						
N		4	4	4	5	
Median		0.2075	0.6348	0.06375	0.6440	
MAD		0.0450	0.5695	0.00750	0.1840	
=====						
PCB 167 (µg/kg)						
HILL	(58)	1.000 <	1.000 <	1.100 <	1.70	
EPILAB-1A	(87)	0.620	0.240	0.210	1.20	
ORGDIMCH	(120)	0.580	0.241	0.196	1.41	ZZZ R
LABAMB	(878)	1.000 <	1.000 <	1.000 <	1.90	J-K R
PA2010LAB	(1058)	0.770	0.190	0.130	1.08	BUH R
===== Statistical Results (no NDA) =====						
N		3	3	3	5	
Median		0.6200	0.2400	0.1955	1.408	
MAD		0.0405	0.0005	0.0145	0.293	
=====						
PCB 169 (µg/kg)						
ELML	(33)	3.400	2.600	3.400	7.200	QZH R
WELLAB	(35)	2.000 <	2.000 <	2.000 <	2.000 <	
HILL	(58)	1.000 <	1.000 <	1.000 <	1.000 <	
EPILAB-1A	(87)	0.015	0.002	0.003	0.110	
ORGDIMCH	(120)	0.007	0.004	0.003 <	0.103	ZZZ R
LABAMB	(878)	1.000 <	1.000 <	1.000 <	1.000 <	J-K R
PA2010LAB	(1058)	0.220	0.670	0.300	0.250	BUH R
===== Statistical Results (no NDA) =====						
N		4	4	3	4	
Median		0.1175	0.3370	0.3000	0.1800	
MAD		0.1068	0.3340	0.2970	0.0738	
=====						
PCB 180 (µg/kg)						
ZINDZIWE	(1)	-	-	2.10	12.0	--HCE
MLABTW	(4)	11.65	4.43	5.00	19.0	ZZK R
AL-West	(5)	9.07	-	-	-	ZZH R
Alconheir	(7)	9.30	5.00	3.90	26.0	Q-K R
ANM	(8)	7.35	4.54	4.94	17.6	Q-HR
BLAUWHUIS	(14)	6.05	2.79	3.01	20.9	
FRIDOLIN	(15)	7.23	2.86	2.72	19.4	BWK R
HIDU	(16)	6.00	2.00	2.00	12.0	ZUH Q
PAULINE	(18)	5.02	56.40 **	3.13	18.1	Z-H R
RIZA-IMLO	(20)	9.04	3.84	3.69	26.6	DUI Q
ANALGEO	(21)	7.20	3.10	2.80	22.0	ZNH Q
EXACT	(28)	7.00	4.00	12.00 **	22.0	QRK R
ANATEK	(29)	8.82	3.14	4.04	25.3	Q-H R
ELML	(33)	5.70	3.60	3.60	17.3	QZH R
WELLAB	(35)	6.63	6.07 *	3.87	21.7	BKZQ
US	(39)	8.91	6.97 *	4.43	23.2	FHJ Q
JYUIER	(41)	7.52	3.30	2.84	18.9	ZZI Q
LAS	(48)	8.67	3.82	3.31	34.5 *	ZUH R
HILL	(58)	8.20	4.50	3.40	30.0	ZXHR
ARCHIMEDES	(59)	18.99 **	7.10 *	20.00 <	20.0 <	Z-H R
===== Summary Statistics =====						
NDA mean		7.697	3.892	3.616	21.24	
NDA st dev		2.057	1.071	1.119	5.59	
N		37	35	35	37	(cont.)

SETOC 2012.1 - Polychlorobiphenyls

Sample	791	792	784	776	MIC
PCB 180 (µg/kg) (cont.)					
GGM (60)	7.70	3.76	3.94	25.5	ZVZ R
ULS (61)	5.55	4.59	3.77	21.8	JRH R
QSANAL (76)	11.00	8.00 **	7.00 **	34.0 *	ZWH R
BOREALIS (78)	7.66	3.92	3.71	21.3	CYH Q
EPILAB-1A (87)	5.00 <	5.00 <	5.00 <	12.9	
GAL (91)	4.00	4.00	3.00	18.0	JXH Q
STCRSC (92)	2.90 *	1.50 *	2.18	9.1 *	JAH Q
VERITAS (101)	8.00	10.00 <	10.00 <	10.0 < *	JZK R
RECKENHOLZ (108)	8.18	4.74	5.06	26.1	BRK R
THO1808MAS (110)	6.40	3.12	3.10	18.4	ZRH Q
ORGDIMCH (120)	12.06 *	4.72	5.68	39.4 **	ZZZ R
HHAUFU (134)	3.00 *	2.50	16.50 **	15.1	QUH R
ECCM (841)	8.54	3.92	4.84	24.3	BHHR
LAB607 (862)	9.09	5.45	3.84	26.7	BRHR
CNRLBR (875)	9.79	3.78	3.83	24.7	ZUH R
LABAMB (878)	11.39	9.50 **	6.83 *	28.2	J-K R
TLR (900)	7.13	3.18	3.55	21.4	
TAMPERE (911)	2.90 *	4.00	5.30	18.3	Q-HR
WANDSCH (958)	10.00 <	10.00 <	10.00 <	20.5	ZUJQ
PA2010LAB (1058)	7.28	4.65	2.10	17.5	BUH R

	Statistical Results			
NDA mean	7.697	3.892	3.616	21.24
NDA st dev	2.057	1.071	1.119	5.59
N	37	35	35	37
Median	7.660	4.000	3.770	21.40
MAD	1.384	0.740	0.770	3.80

PCB 189 (µg/kg)					
HILL (58)	1.000 <	1.0000 <	1.100 <	1.000	
EPILAB-1A (87)	0.240	0.0940	0.098	0.730	
ORGDIMCH (120)	0.236	0.0825	0.160	0.806	ZZZ R
LABAMB (878)	1.210	1.0000 <	1.000 <	1.360	J-K R
PA2010LAB (1058)	0.740	0.4700	0.120	1.090	BUH R

	Statistical Results (no NDA)			
N	4	3	3	5
Median	0.4900	0.09400	0.1200	1.0000
MAD	0.2523	0.01150	0.0220	0.1940

SETOC 2012.1 - Organochlorine pesticides

Sample		791	792	784	776	MIC
1,2,3 trichlorobenzene (µg/kg)						
PAULINE	(18)	5.00 <	5.00 <	5.00 <	5.00 <	ZZK R
ARCHIMEDES	(59)	10.00 <	10.00 <	100.00 <	100.00 <	ZZK R
ORGDIMCH	(120)	4.00 <	4.00 <	2.00 <	2.00 <	ZZZ R
CHE	(887)	5.00 <	5.00 <	5.00 <	5.00 <	ZYHR

===== No Statistical Results =====

1,2,3,4 tetrachlorobenzene (µg/kg)						
PAULINE	(18)	5.00 <	5.00 <	5.00 <	5.0 <	ZZK R
ARCHIMEDES	(59)	9.15	3.00 <	30.00 <	30.0 <	ZZK R
LABAMB	(878)	6.00	5.00	5.00 <	17.0	J-K R

===== Statistical Results (no NDA) =====

N		2	1	-	1	
Median		7.576	5.000	-	17.00	
MAD		1.576	-	-	-	

=====

1,2,4 trichlorobenzene (µg/kg)						
PAULINE	(18)	10.1	14.0	5.00 <	7.8	ZZK R
ARCHIMEDES	(59)	21.1	18.4	100.00 <	100.0 <	ZZK R
ORGDIMCH	(120)	41.2	48.8	6.73	15.1	
CHE	(887)	5.0 <	5.0 <	5.00 <	5.0 <	

===== Statistical Results (no NDA) =====

N		3	3	1	2	
Median		21.09	18.39	6.729	11.42	
MAD		10.97	4.43	-	3.65	

=====

1,3,5 trichlorobenzene (µg/kg)						
PAULINE	(18)	10.5	8.3	5.00 <	15.8	ZZK R
ARCHIMEDES	(59)	19.6	10.6	30.00 <	30.0 <	ZZK R
ORGDIMCH	(120)	33.3	25.1	4.00 <	30.1	
CHE	(887)	5.0 <	5.0 <	5.00 <	5.0 <	

===== Statistical Results (no NDA) =====

N		3	3	-	2	
Median		19.64	10.63	-	22.94	
MAD		9.12	2.35	-	7.17	

=====

aldrin (µg/kg)						
ZINDZIWE	(1)	-	-	5.00 <	5.00 <	--HCE
MLABTW	(4)	1.00 <	1.00 <	1.00 <	1.00 <	ZZK R
PAULINE	(18)	1.00 <	1.00 <	1.00 <	1.00 <	ZZK R
RIZA-IMLO	(20)	0.58	0.77	0.50 <	6.99	DUI Q
EXACT	(28)	1.40 <	2.60 <	2.80 <	2.70 <	QRK R
WELLAB	(35)	10.00 <	10.00 <	10.00 <	10.00 <	
US	(39)	4.09	1.24	2.49	0.70	FHJ Q
LAS	(48)	0.20 <	0.20 <	0.20 <	0.20 <	ZUH R
ARCHIMEDES	(59)	2.00 <	2.00 <	20.00 <	20.00 <	ZZK R
GGM	(60)	7.20	5.00 <	5.00 <	5.00 <	Z-Z R
EPILAB-1A	(87)	5.00 <	5.00 <	5.00 <	5.00 <	
ORGDIMCH	(120)	2.00 <	2.00 <	2.00 <	2.00 <	ZZZ R
CHE	(887)	5.00 <	5.00 <	5.00 <	5.00 <	ZYHR
TLR	(900)	5.00 <	5.00 <	5.00 <	5.00 <	DRKR
PA2010LAB	(1058)	1.00 <	1.00 <	1.00 <	1.00 <	JNH R

===== Statistical Results (no NDA) =====

N		3	2	1	2	
Median		4.090	1.007	2.490	3.846	
MAD		3.110	0.234	-	3.146	

=====

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
alpha-endosulfan (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.000 <	--HCE
MLABTW (4)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
BLAUWHUIS (14)	1.000 <	1.000 <	1.000 <	1.000 <	---
PAULINE (18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	0.500 <	0.500 <	0.500 <	DUI Q
EXACT (28)	2.000 <	3.800 <	4.100 <	4.000 <	QRK R
WELLAB (35)	10.000 <	10.000 <	10.000 <	10.000 <	
US (39)	0.700	0.700	0.700	0.700	FHJ Q
LAS (48)	1.000 <	1.000 <	1.000 <	1.000 <	ZUH R
ARCHIMEDES (59)	10.000 <	10.000 <	100.000 <	100.000 <	ZZK R
GGM (60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH (120)	2.000 <	2.000 <	2.000 <	2.000 <	ZZZ R
TLR (900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	1	1	1
Median	0.7000	0.7000	0.7000	0.7000
MAD	-	-	-	-

alpha-HCH (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.000 <	--HCE
MLABTW (4)	1.000 <	3.00 <	1.000 <	1.000 <	ZZK R
BLAUWHUIS (14)	1.000 <	1.00 <	1.000 <	1.000 <	
PAULINE (18)	1.000 <	1.00 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	4.19	0.500 <	0.500 <	DUI Q
EXACT (28)	1.700 <	3.10 <	3.400 <	3.300 <	QRK R
WELLAB (35)	10.000 <	10.00 <	10.000 <	10.000 <	
US (39)	0.700	3.50	0.700	0.700	FHJ Q
JYUIER (41)	0.500 <	4.69	0.500 <	0.500 <	ZZI Q
LAS (48)	0.200 <	2.44	0.200 <	0.200 <	ZUH R
ARCHIMEDES (59)	50.000 <	50.00 <	500.000 <	500.000 <	ZZK R
GGM (60)	5.000 <	5.00 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.00 <	5.000 <	5.000 <	
GAL (91)	1.000 <	1.00 <	1.000 <	1.000 <	JXH Q
ORGDIMCH (120)	2.000 <	2.00 <	2.000 <	2.000 <	ZZZ R
CNRLBR (875)	0.500 <	2.80	0.500 <	0.500 <	ZUH R
CHE (887)	5.000 <	5.00 <	5.000 <	5.000 <	ZYHR
TLR (900)	5.000 <	5.00 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.00 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	5	1	1
Median	0.7000	3.500	0.7000	0.7000
MAD	-	0.700	-	-

beta-endosulfan (µg/kg)					
PAULINE (18)	1.00 <	1.00 <	1.00 <	1.00 <	ZZK R
RIZA-IMLO (20)	0.50 <	0.50 <	0.50 <	0.50 <	DUI Q
WELLAB (35)	10.00 <	10.00 <	10.00 <	10.00 <	
LAS (48)	1.00 <	1.00 <	1.00 <	1.00 <	ZUH R
GGM (60)	5.00 <	5.00 <	5.00 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.00 <	5.00 <	5.00 <	5.00 <	
ORGDIMCH (120)	2.00 <	2.00 <	2.00 <	2.00 <	ZZZ R
TLR (900)	5.00 <	5.00 <	5.00 <	5.00 <	DRKR

===== No Statistical Results =====

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
beta-HCH (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.000 <	--HCE
MLABTW (4)	1.000 <	2.00 <	1.000 <	3.500 <	ZZK R
BLAUWHUIS (14)	1.000 <	1.00 <	1.000 <	1.000 <	
PAULINE (18)	1.000 <	1.00 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	0.50 <	0.500 <	0.500 <	DUI Q
EXACT (28)	1.900 <	3.60 <	3.900 <	3.800 <	QRK R
WELLAB (35)	10.000 <	10.00 <	10.000 <	10.000 <	
US (39)	0.700	3.43	0.700	0.700	FHJ Q
LAS (48)	0.200 <	1.78	0.200 <	0.200 <	ZWH R
ARCHIMEDES (59)	5.000 <	5.00 <	50.000 <	50.000 <	ZZK R
GGM (60)	5.000 <	5.00 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.00 <	5.000 <	5.000 <	
GAL (91)	1.000 <	4.00	1.000 <	1.000 <	JXH Q
ORGDIMCH (120)	2.000 <	2.00 <	2.000 <	2.000 <	ZZZ R
CNRLBR (875)	0.500 <	1.83	0.500 <	0.500 <	ZUH R
CHE (887)	5.000 <	5.00 <	5.000 <	5.000 <	ZYHR
TLR (900)	5.000 <	5.00 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.00 <	1.000 <	1.000 <	JNH R

===== Statistical Results (no NDA) =====

N	1	4	1	1
Median	0.7000	2.630	0.7000	0.7000
MAD	-	0.825	-	-

=====

chlordan (µg/kg)

EXACT (28)	2.00 <	3.00 <	3.20 <	3.10 <	QRK R
GGM (60)	5.00 <	5.00 <	5.00 <	5.00 <	
EPILAB-1A (87)	5.00 <	5.00 <	5.00 <	5.00 <	
ORGDIMCH (120)	2.00 <	2.00 <	2.00 <	2.00 <	
TLR (900)	5.00 <	5.00 <	5.00 <	5.00 <	

===== No Statistical Results =====

cis-chlordan (µg/kg)

PAULINE (18)	1.00 <	1.000 <	1.000 <	1.00 <	ZZK R
EXACT (28)	1.00 <	1.300 <	1.400 <	1.30 <	QRK R
WELLAB (35)	10.00 <	10.000 <	10.000 <	10.00 <	
US (39)	0.70	0.700	0.700	1.01	FHJ Q
ARCHIMEDES (59)	9.31	2.000 <	20.000 <	20.00 <	ZZK R
GGM (60)	5.00 <	5.000 <	5.000 <	5.00 <	
EPILAB-1A (87)	5.00 <	5.000 <	5.000 <	5.00 <	
ORGDIMCH (120)	2.00 <	2.000 <	2.000 <	2.00 <	ZZZ R
LABAMB (878)	2.00 <	2.000 <	2.000 <	2.00 <	J-K R

===== Statistical Results (no NDA) =====

N	2	1	1	1
Median	5.005	0.7000	0.7000	1.010
MAD	4.305	-	-	-

=====

delta-HCH (µg/kg)

PAULINE (18)	1.000 <	1.00 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	1.92	0.500 <	0.500 <	DUI Q
EXACT (28)	1.900 <	3.60 <	3.900 <	3.800 <	QRK
WELLAB (35)	10.000 <	10.00 <	10.000 <	10.000 <	
US (39)	0.700	2.19	0.700	0.700	FHJ Q
LAS (48)	0.200 <	0.70	0.200 <	0.200 <	ZUH R
ARCHIMEDES (59)	20.000 <	20.00 <	200.000 <	200.000 <	ZZK R
GGM (60)	5.000 <	5.00 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.00 <	5.000 <	5.000 <	

===== Summary Statistics (No NDA) =====

Median	0.7000	1.922	0.7000	0.7000
MAD	-	0.268	-	-
N	1	3	1	1

(cont.)

SETOC 2012.1 - Organochlorine pesticides

Sample		791	792	784	776	MIC
delta-HCH (µg/kg) (cont.)						
ORGDIMCH	(120)	2.000 <	2.00 <	2.000 <	2.000 <	ZZZ R
CNRLBR	(875)	0.500 <	0.50 <	0.500 <	0.500 <	ZUH R
CHE	(887)	5.000 <	5.00 <	5.000 <	5.000 <	
TLR	(900)	5.000 <	5.00 <	5.000 <	5.000 <	DRKR
PA2010LAB	(1058)	1.000 <	1.00 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	3	1	1
Median	0.7000	1.922	0.7000	0.7000
MAD	-	0.268	-	-

dieldrin (µg/kg)						
ZINDZIWE	(1)	-	-	5.000 <	5.00 <	--HCE
MLABTW	(4)	2.00 <	1.000 <	1.000 <	1.00 <	ZZK R
PAULINE	(18)	1.00 <	1.000 <	1.000 <	1.00 <	ZZK R
RIZA-IMLO	(20)	2.23	0.684	1.257	0.50 <	DUI Q
EXACT	(28)	1.90 <	3.600 <	3.800 <	17.00	QRK R
WELLAB	(35)	10.00 <	10.000 <	10.000 <	10.00 <	
US	(39)	0.70	0.700	0.700	0.70	FHJ Q
LAS	(48)	1.00 <	1.000 <	1.000 <	1.00 <	ZUH R
ARCHIMEDES	(59)	15.34	2.000 <	20.000 <	20.00 <	ZZK R
GGM	(60)	5.00 <	5.000 <	5.000 <	5.00 <	Z-Z R
EPILAB-1A	(87)	5.00 <	5.000 <	5.000 <	5.00 <	
ORGDIMCH	(120)	2.00 <	2.000 <	2.000 <	2.00 <	ZZZ R
CHE	(887)	5.00 <	5.000 <	5.000 <	5.00 <	ZYHR
TLR	(900)	5.00 <	5.000 <	5.000 <	5.00 <	DRKR
PA2010LAB	(1058)	1.00 <	1.000 <	1.000 <	1.00 <	JNH R

	Statistical Results (no NDA)			
N	3	2	2	2
Median	2.227	0.6920	0.9785	8.850
MAD	1.527	0.0080	0.2785	8.150

endosulfan (µg/kg)						
GGM	(60)	5.00 <	5.00 <	5.00 <	5.00 <	Z-Z R
EPILAB-1A	(87)	5.00 <	5.00 <	5.00 <	5.00 <	
ORGDIMCH	(120)	2.00 <	2.00 <	2.00 <	2.00 <	
TLR	(900)	5.00 <	5.00 <	5.00 <	5.00 <	DRKR

==== No Statistical Results =====

endosulfan sulfate (µg/kg)						
PAULINE	(18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
WELLAB	(35)	10.000 <	10.000 <	10.000 <	10.000 <	
US	(39)	0.700	0.700	0.700	0.700	FHJ Q
ARCHIMEDES	(59)	20.000 <	20.000 <	200.000 <	200.000 <	ZZK R
GGM	(60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A	(87)	5.000 <	5.000 <	5.000 <	5.000 <	
TLR	(900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB	(1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	1	1	1
Median	0.7000	0.7000	0.7000	0.7000
MAD	-	-	-	-

SETOC 2012.1 - Organochlorine pesticides

Sample		791	792	784	776	MIC
endrin (µg/kg)						
ZINDZIWE	(1)	-	-	5.000 <	5.000 <	--HCE
MLABTW	(4)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
PAULINE	(18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO	(20)	1.000 <	1.000 <	1.000 <	1.233	DUI Q
EXACT	(28)	1.000 <	1.500 <	1.600 <	1.600 <	QRK R
WELLAB	(35)	10.000 <	10.000 <	10.000 <	10.000 <	
US	(39)	0.700	0.700	0.700	0.700	FHJ Q
LAS	(48)	0.400 <	0.400 <	0.400 <	0.400 <	ZUH R
ARCHIMEDES	(59)	5.000 <	5.000 <	50.000 <	50.000 <	ZZK R
GGM	(60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A	(87)	5.000 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH	(120)	2.000 <	2.000 <	2.000 <	2.000 <	ZZZ R
CHE	(887)	5.000 <	5.000 <	5.000 <	5.000 <	ZYHR
TLR	(900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB	(1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	1	1	2
Median	0.7000	0.7000	0.7000	0.9665
MAD	-	-	-	0.2665

gamma-HCH (µg/kg)						
ZINDZIWE	(1)	-	-	5.000 <	5.000 <	--HCE
MLABTW	(4)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
PAULINE	(18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO	(20)	0.500 <	0.500 <	0.500 <	0.500 <	DUI Q
EXACT	(28)	1.500 <	2.900 <	3.100 <	3.100 <	QRK R
WELLAB	(35)	10.000 <	10.000 <	10.000 <	10.000 <	
US	(39)	0.700	1.210	0.700	0.700	FHJ Q
JYUIER	(41)	0.500 <	0.640	0.500 <	0.500 <	ZZI Q
LAS	(48)	0.200 <	0.700	0.200 <	0.200 <	ZUH R
ARCHIMEDES	(59)	5.000 <	5.000 <	50.000 <	50.000 <	ZZK R
GGM	(60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A	(87)	5.000 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH	(120)	2.000 <	2.000 <	2.000 <	2.000 <	ZZZ R
CNRLBR	(875)	0.500 <	0.790	0.500 <	0.500 <	ZUH R
CHE	(887)	5.000 <	5.000 <	5.000 <	5.000 <	ZYHR
TLR	(900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB	(1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	4	1	1
Median	0.7000	0.7450	0.7000	0.7000
MAD	-	0.0750	-	-

heptachlor (µg/kg)						
ZINDZIWE	(1)	-	-	5.000 <	5.000 <	--HCE
MLABTW	(4)	1.00 <	1.000 <	1.000 <	1.000 <	ZZK R
PAULINE	(18)	1.00 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO	(20)	0.50 <	0.500 <	0.500 <	1.011	DUI Q
EXACT	(28)	2.00 <	3.800 <	4.000 <	4.000 <	QRK R
WELLAB	(35)	10.00 <	10.000 <	10.000 <	10.000 <	
US	(39)	0.70	0.700	0.700	0.700	FHJ Q
LAS	(48)	1.00 <	1.000 <	1.000 <	1.000 <	ZUH R
ARCHIMEDES	(59)	8.66	2.000 <	20.000 <	20.000 <	ZZK R
GGM	(60)	5.00 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A	(87)	5.00 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH	(120)	2.00 <	2.000 <	2.000 <	2.000 <	ZZZ R
TLR	(900)	5.00 <	5.000 <	5.000 <	5.000 <	DRKR

	Summary Statistics (No NDA)			
Median	4.681	0.7000	0.7000	0.8555
MAD	3.981	-	-	0.1555
N	2	1	1	2

(cont.)

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
heptachlor (µg/kg) (cont.)					
PA2010LAB (1058)	1.00 <	1.000 <	1.000 <	1.000 <	JNH R
===== Statistical Results (no NDA) =====					
N	2	1	1	2	
Median	4.681	0.7000	0.7000	0.8555	
MAD	3.981	-	-	0.1555	
=====					
heptachlor epoxide (µg/kg)					
ZINDZIWE (1)	-	-	10.000 <	10.000 <	--HCE
MLABTW (4)	1.400 <	1.400 <	1.400 <	1.400 <	ZZK R
PAULINE (18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	0.500 <	0.500 <	0.500 <	DUI Q
EXACT (28)	2.400 <	4.600 <	4.900 <	4.900 <	QRK R
WELLAB (35)	10.000 <	10.000 <	10.000 <	10.000 <	
US (39)	0.700	0.700	0.700	0.700	FHJ Q
ARCHIMEDES (59)	5.000 <	5.000 <	50.000 <	50.000 <	ZZK R
GGM (60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH (120)	4.000 <	4.000 <	4.000 <	4.000 <	ZZZ R
TLR (900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R
===== Statistical Results (no NDA) =====					
N	1	1	1	1	
Median	0.7000	0.7000	0.7000	0.7000	
MAD	-	-	-	-	
=====					
hexachlorobenzene (µg/kg)					
ZINDZIWE (1)	-	-	1.000 <	33.0	---
MLABTW (4)	14.1	1.42	1.000 <	40.7	ZZK R
BLAUWHUIS (14)	8.0	1.00 <	1.000 <	43.3	
PAULINE (18)	7.5	1.00 <	1.000 <	47.3	ZZK R
RIZA-IMLO (20)	13.9	2.80	0.804	41.8	DUI Q
EXACT (28)	16.0	3.40 <	3.600 <	21.0	QRK R
WELLAB (35)	12.7	10.00 <	10.000 <	31.2	
US (39)	15.6	1.06	0.700	43.0	FHJ Q
JYUIER (41)	18.9	2.16	0.640	45.1	ZZI Q
LAS (48)	4.6	0.38	0.200 <	9.8 *	ZWH R
ARCHIMEDES (59)	20.0	2.00 <	20.000 <	27.6	ZZK R
GGM (60)	19.0	5.00 <	5.000 <	76.0 **	Z-Z R
TECHHK (79)	50.0 <	50.00 <	50.000 <	50.0 <	Q-HR
EPILAB-1A (87)	7.6	5.00 <	5.000 <	26.9	
GAL (91)	3.0	1.00 <	1.000 <	32.0	JXH Q
ORGDIMCH (120)	25.3	5.59	5.426	29.8	ZZZ R
CNRLBR (875)	16.6	1.67	0.590	41.1	ZUH R
LABAMB (878)	15.0	5.00 <	5.000 <	42.0	J-K R
CHE (887)	5.0 <	5.00 <	5.000 <	5.0 < **	ZYHR
TLR (900)	19.0	5.00 <	5.000 <	41.0	DRKR
PA2010LAB (1058)	1.0 < *	1.00 <	1.000 <	1.0 < **	JNH R
===== Statistical Results =====					
NDA mean	14.53	-	-	37.06	
NDA st dev	6.02	-	-	10.18	
N	17	7	5	18	
Median	15.00	1.670	0.7000	40.83	
MAD	4.00	0.610	0.1040	7.16	
=====					

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
hexachlorobutadiene (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	6.20	--HCE
PAULINE (18)	1.00 <	1.000 <	1.000 <	9.67	ZZK R
RIZA-IMLO (20)	1.27	1.000 <	1.000 <	5.93	DUI Q
US (39)	1.74	0.700	0.700	11.35	FHJ Q
ARCHIMEDES (59)	9.29	2.000 <	20.000 <	20.00 <	ZZK R
GGM (60)	5.00 <	5.000 <	5.000 <	9.80	Z-Z R
EPILAB-1A (87)	10.00 <	10.000 <	10.000 <	10.00 <	
ORGDIMCH (120)	3.57	2.000 <	2.000 <	14.42	ZZZ R
CHE (887)	5.00 <	5.000 <	5.000 <	5.00 <	ZYHR

	Statistical Results (no NDA)			
N	4	1	1	6
Median	2.655	0.7000	0.7000	9.737
MAD	1.149	-	-	2.576

isodrin (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.000 <	--HCE
MLABTW (4)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
PAULINE (18)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	0.500 <	0.500 <	0.500 <	0.783	DUI Q
EXACT (28)	1.700 <	3.300 <	3.500 <	3.500 <	QRK R
US (39)	0.700	0.700	0.700	0.700	FHJ Q
ARCHIMEDES (59)	5.000 <	5.000 <	50.000 <	50.000 <	ZZK R
GGM (60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.000 <	5.000 <	5.000 <	
ORGDIMCH (120)	2.000 <	2.000 <	2.000 <	2.000 <	ZZZ R
CHE (887)	5.000 <	5.000 <	5.000 <	5.000 <	ZYHR
TLR (900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	1	1	2
Median	0.7000	0.7000	0.7000	0.7415
MAD	-	-	-	0.0415

o,p`-DDD (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	14.00	--HCE
MLABTW (4)	1.000 <	2.79	1.000 <	2.50 <	ZZK R
PAULINE (18)	1.000 <	10.00 <	10.000 <	1.00 <	ZZK R
RIZA-IMLO (20)	0.500 <	1.78	0.500 <	0.50 <	DUI Q
EXACT (28)	1.000 <	1.20 <	1.300 <	1.30 <	QRK R
US (39)	1.100	3.84	0.700	1.77	FHJ Q
LAS (48)	0.240	1.11	0.200 <	0.65	ZWH R
ARCHIMEDES (59)	1.000 <	1.00 <	10.000 <	10.00 <	ZZK R
GGM (60)	5.000 <	5.00 <	5.000 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.00 <	5.000 <	5.00 <	
ORGDIMCH (120)	2.000 <	2.00 <	2.000 <	2.00 <	ZZZ R
CNRLBR (875)	0.500 <	2.03	0.500 <	1.44	ZUH R
LABAMB (878)	2.000 <	2.00 <	2.000 <	2.00 <	J-K R
TLR (900)	5.000 <	5.00 <	5.000 <	5.00 <	DRKR
PA2010LAB (1058)	1.000 <	1.00 <	1.000 <	1.00 <	JNH R

	Statistical Results (no NDA)			
N	2	5	1	4
Median	0.6700	2.030	0.7000	1.605
MAD	0.4300	0.761	-	0.560

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
o,p'-DDE (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.00 <	--HCE
MLABTW (4)	1.00 <	1.00 <	1.000 <	1.00 <	ZZK R
PAULINE (18)	1.00 <	10.00 <	10.000 <	1.00 <	ZZK R
RIZA-IMLO (20)	0.50 <	0.50 <	0.500 <	0.50 <	DUI Q
EXACT (28)	1.00 <	1.00 <	1.100 <	1.00 <	QRK R
US (39)	0.70	1.17	0.700	1.09	FHJ Q
LAS (48)	0.20 <	0.20 <	0.200 <	0.20 <	ZWH R
ARCHIMEDES (59)	13.13	1.00 <	10.000 <	10.00 <	ZZK R
GGM (60)	5.00 <	5.00 <	5.000 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.00 <	5.00 <	5.000 <	5.00 <	
GAL (91)	1.00 <	1.00 <	1.000 <	1.00 <	JXH Q
ORGDIMCH (120)	2.00 <	2.00 <	2.000 <	2.00 <	ZZZ R
CNRLBR (875)	0.50 <	0.50 <	0.500 <	0.50 <	ZUH R
LABAMB (878)	2.00 <	2.00 <	2.000 <	2.00 <	J-K R
TLR (900)	5.00 <	5.00 <	5.000 <	5.00 <	DRKR
PA2010LAB (1058)	1.00 <	1.00 <	1.000 <	1.00 <	JNH R

	Statistical Results (no NDA)			
N	2	1	1	1
Median	6.916	1.170	0.7000	1.090
MAD	6.216	-	-	-

o,p'-DDT (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.000 <	--HCE
MLABTW (4)	1.000 <	1.000 <	1.000 <	1.000 <	ZZK R
PAULINE (18)	1.000 <	10.000 <	10.000 <	1.000 <	ZZK R
RIZA-IMLO (20)	1.000 <	1.000 <	1.000 <	1.000 <	DUI Q
EXACT (28)	2.000 <	3.800 <	4.100 <	4.000 <	QRK R
WELLAB (35)	10.000 <	10.000 <	10.000 <	10.000 <	
US (39)	0.700	0.700	0.700	0.700	FHJ Q
GGM (60)	5.000 <	5.000 <	5.000 <	5.000 <	Z-Z R
EPILAB-1A (87)	5.000 <	5.000 <	5.000 <	5.000 <	
GAL (91)	1.000 <	1.000 <	1.000 <	1.000 <	JXH Q
ORGDIMCH (120)	2.000 <	2.000 <	2.000 <	2.000 <	ZZZ R
CNRLBR (875)	0.500 <	0.500 <	0.500 <	0.580	ZUH R
LABAMB (878)	2.000 <	2.000 <	2.000 <	2.000 <	J-K R
CHE (887)	5.000 <	5.000 <	5.000 <	5.000 <	ZYHR
TLR (900)	5.000 <	5.000 <	5.000 <	5.000 <	DRKR
PA2010LAB (1058)	1.000 <	1.000 <	1.000 <	1.000 <	JNH R

	Statistical Results (no NDA)			
N	1	1	1	2
Median	0.7000	0.7000	0.7000	0.6400
MAD	-	-	-	0.0600

p,p'-DDD (µg/kg)					
ZINDZIWE (1)	-	-	5.000 <	5.00 <	--HCE
MLABTW (4)	1.47	10.5	1.000 <	4.00 <	ZZK R
PAULINE (18)	1.00 <	10.0 <	10.000 <	1.00 <	ZZK R
RIZA-IMLO (20)	1.49	7.9	0.916	4.75	DUI Q
EXACT (28)	22.00	3.8 < *	4.100 <	4.10 <	QRK R
WELLAB (35)	10.00 <	10.0 <	10.000 <	10.00 <	
US (39)	2.52	12.4	1.420	5.41	FHJ Q
JYUIER (41)	1.70	8.0	0.740	3.38	ZZI Q
LAS (48)	1.33	11.3	1.000 <	3.61	ZWHR
GGM (60)	5.00 <	5.0 <	5.000 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.00 <	5.0 <	5.000 <	5.00 <	
GAL (91)	1.00 <	12.0	2.000	9.00	JXH Q
ORGDIMCH (120)	2.00 <	2.0 < *	2.000 <	2.00 <	ZZZ R

	Summary Statistics			
NDA mean	-	10.10	-	-
NDA st dev	-	2.76	-	-
N	7	8	5	7

(cont.)

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
p,p'-DDD (µg/kg) (cont.)					
CNRLBR (875)	1.91	10.0	0.880	5.00	ZUH R
LABAMB (878)	2.00 <	3.9 *	2.000 <	3.25	J-K R
CHE (887)	5.00 <	5.0 <	5.000 <	5.00 <	ZYHR
TLR (900)	5.00 <	5.0 <	5.000 <	5.00 <	DRKR
PA2010LAB (1058)	1.00 <	1.0 < **	1.000 <	1.00 <	JNH R

	Statistical Results				
NDA mean	-	10.10	-	-	
NDA st dev	-	2.76	-	-	
N	7	8	5	7	
Median	1.700	10.26	0.9160	4.749	
MAD	0.234	1.96	0.1760	1.139	

p,p'-DDE (µg/kg)					
ZINDZIWE (1)	-	-	5.00 <	5.00 <	--HCE
MLABTW (4)	2.46	3.17	1.00 <	4.50 <	ZZK R
PAULINE (18)	1.00 < **	10.00 <	10.00 <	1.00 <	ZZK R
RIZA-IMLO (20)	2.61	2.86	0.50 <	7.84	DUI Q
EXACT (28)	3.20	1.50 < **	1.60 <	1.60 <	QRK R
WELLAB (35)	10.00 <	10.00 <	10.00 <	10.00 <	
US (39)	2.83	3.55	0.70	5.16	FHJ Q
JYUIER (41)	2.35	2.82	0.50 <	4.02	ZZI Q
LAS (48)	1.00 **	1.42 **	0.20 <	2.15	ZWHR
ARCHIMEDES (59)	15.64 **	1.00 < **	10.00 <	10.00 <	ZZK R
GGM (60)	5.00 <	5.00 <	5.00 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.00 <	5.00 <	5.00 <	5.00 <	
GAL (91)	1.00 < **	4.00	1.00 <	7.00	JXH Q
ORGDIMCH (120)	2.00 <	2.00 < *	2.00 <	2.00 <	ZZZ R
CNRLBR (875)	2.17	2.92	0.50 <	4.61	ZUH R
LABAMB (878)	2.50	6.50 **	2.80	6.15	J-K R
TLR (900)	5.00 <	5.00 <	5.00 <	5.00 <	DRKR
PA2010LAB (1058)	1.00 < **	1.00 < **	1.00 <	1.00 <	JNH R

	Statistical Results				
NDA mean	2.542	3.119	-	-	
NDA st dev	0.448	0.528	-	-	
N	9	8	2	7	
Median	2.500	3.045	1.750	5.160	
MAD	0.330	0.365	1.050	1.140	

p,p'-DDT (µg/kg)					
ZINDZIWE (1)	-	-	5.00 <	5.00 <	--HCE
MLABTW (4)	1.00 <	1.00 <	1.00 <	2.00 <	ZZK R
BLAUWHUIS (14)	3.00 <	3.00 <	3.00 <	3.30	
PAULINE (18)	1.00 <	10.00 <	10.00 <	1.00 <	ZZK R
RIZA-IMLO (20)	5.87	0.50 <	4.60	10.43	DUI Q
EXACT (28)	22.00	3.40 <	3.70 <	3.60 <	QRK R
WELLAB (35)	10.00 <	10.00 <	10.00 <	10.00 <	
US (39)	0.70	1.14	1.61	1.98	FHJ Q
JYUIER (41)	1.00 <	1.00 <	1.00 <	1.00 <	ZZI Q
LAS (48)	1.00 <	1.00 <	1.00 <	1.00 <	ZWHR
ARCHIMEDES (59)	12.24	2.00 <	20.00 <	20.00 <	ZZK R
GGM (60)	5.00 <	5.00 <	5.00 <	5.00 <	Z-Z R
EPILAB-1A (87)	5.00 <	5.00 <	5.00 <	5.00 <	
GAL (91)	1.00 <	4.00	5.00	6.00	JXH Q
ORGDIMCH (120)	2.00 <	2.00 <	2.00 <	2.00 <	ZZZ R
CNRLBR (875)	0.50	0.50 <	1.49	2.02	ZUH R
LABAMB (878)	2.00 <	2.00 <	4.15	3.85	J-K R
TLR (900)	5.00 <	5.00 <	5.00 <	5.00 <	DRKR

	Summary Statistics (No NDA)				
Median	5.871	2.570	4.150	3.575	
MAD	5.371	1.430	0.850	1.575	
N	5	2	5	6	(cont.)

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
p,p'-DDT (µg/kg) (cont.)					
PA2010LAB (1058)	1.00 <	1.00 <	1.00 <	1.00 <	JNH R
===== Statistical Results (no NDA) =====					
N	5	2	5	6	
Median	5.871	2.570	4.150	3.575	
MAD	5.371	1.430	0.850	1.575	
=====					
pentachlorobenzene (µg/kg)					
ZINDZIWE (1)	-	-	1.000 <	5.00 <	---
PAULINE (18)	5.00 <	5.00 <	5.000 <	13.19	ZZK R
RIZA-IMLO (20)	1.87	1.00 <	1.000 <	4.55	DUI Q
US (39)	3.66	1.28	0.700	6.94	FHJ Q
ARCHIMEDES (59)	9.89	2.00 <	20.000 <	20.00 <	ZZK R
GGM (60)	5.00 <	5.00 <	5.000 <	6.00	Z-Z R
EPILAB-1A (87)	5.00 <	5.00 <	5.000 <	5.00 <	
GAL (91)	1.00	1.00 <	1.000 <	4.00	JXH Q
LABAMB (878)	5.00 <	5.00 <	5.000 <	5.00 <	J-K R
CHE (887)	5.00 <	5.00 <	5.000 <	5.00 <	ZYHR
TLR (900)	3.00	5.00 <	5.000 <	5.00	DRKR
PA2010LAB (1058)	2.60	1.00 <	1.000 <	1.00 <	JNH R
===== Statistical Results (no NDA) =====					
N	6	1	1	6	
Median	2.800	1.280	0.7000	5.500	
MAD	0.897	-	-	1.193	
=====					
Sum tetrachlorobenzenes (µg/kg)					
PAULINE (18)	5.0 <	5.00 <	5.0 <	21.3	ZZK R
ARCHIMEDES (59)	29.4	3.71	30.0 <	30.0 <	ZZK R
===== Statistical Results (no NDA) =====					
N	1	1	-	1	
Median	29.44	3.709	-	21.29	
MAD	-	-	-	-	
=====					
Sum trichlorobenzenes (µg/kg)					
PAULINE (18)	20.7	22.2	5.00 <	23.9	ZZK R
ARCHIMEDES (59)	40.7	29.0	100.00 <	100.0 <	ZZK R
ORGDIMCH (120)	74.4	74.0	6.73	45.2	
===== Statistical Results (no NDA) =====					
N	3	3	1	2	
Median	40.73	29.02	6.729	34.53	
MAD	20.08	6.78	-	10.64	
=====					
telodrin (µg/kg)					
ZINDZIWE (1)	-	-	5.00 <	5.00 <	--HCE
MLABTW (4)	1.00 <	1.00 <	1.00 <	1.00 <	ZZK R
PAULINE (18)	1.00 <	1.00 <	1.00 <	1.00 <	ZZK R
RIZA-IMLO (20)	1.00 <	1.00 <	1.00 <	1.07	DUI Q
EXACT (28)	2.00 <	3.90 <	4.10 <	4.10 <	QRK R
ARCHIMEDES (59)	5.00 <	5.00 <	50.00 <	50.00 <	ZZK R
GGM (60)	5.00 <	5.00 <	5.00 <	5.00 <	Z-Z R
===== Statistical Results (no NDA) =====					
N	-	-	-	1	
Median	-	-	-	1.068	
MAD	-	-	-	-	
=====					

SETOC 2012.1 - Organochlorine pesticides

Sample	791	792	784	776	MIC
toxaphene (µg/kg)					
TLR (900)	5.00 <	5.00 <	5.00 <	5.00 <	
===== No Statistical Results =====					
trans-chlordane (µg/kg)					
MLABTW (4)	1.000 <	1.000 <	1.000 <	1.00 <	ZZK R
PAULINE (18)	1.000 <	1.000 <	1.000 <	1.00 <	ZZK R
EXACT (28)	1.000 <	1.700 <	1.800 <	1.80 <	QRK R
WELLAB (35)	10.000 <	10.000 <	10.000 <	10.00 <	
US (39)	0.700	0.700	0.700	1.23	FHJ Q
ARCHIMEDES (59)	2.000 <	2.000 <	20.000 <	20.00 <	ZZK R
GGM (60)	5.000 <	5.000 <	5.000 <	5.00 <	
EPILAB-1A (87)	5.000 <	5.000 <	5.000 <	5.00 <	
ORGDIMCH (120)	2.000 <	2.000 <	2.000 <	2.00 <	ZZZ R
LABAMB (878)	2.000 <	2.000 <	2.000 <	2.00 <	J-K R
TLR (900)	5.000 <	5.000 <	5.000 <	5.00 <	DRKR
===== Statistical Results (no NDA) =====					
N	1	1	1	1	
Median	0.7000	0.7000	0.7000	1.230	
MAD	-	-	-	-	
=====					

SETOC 2012.1 - Other parameters

Sample		791	792	784	776	MIC
AOX (mg/kg)						
EPILAB-1A	(87)	130	43.0	45.0	150	QV-MA

===== No Statistical Results =====

CN - Free (mg/kg)						
ZINDZIWE	(1)	-	-	2.000 <	2.000 <	--- E
Alconheir	(7)	1.000 <	1.000 <	1.000 <	1.000 <	Z-- E
BLAUWHUIS	(14)	1.000 <	1.000 <	1.000 <	1.000 <	---
PAULINE	(18)	1.000 <	1.000 <	1.000 <	1.000 <	Z-- E
EXACT	(28)	1.000 <	1.000 <	1.000 <	1.000 <	
ARCHIMEDES	(59)	1.000 <	1.000 <	-	-	Z-- E
TECHHK	(79)	1.000 <	1.000 <	1.000 <	1.000 <	
ORGDIMCH	(120)	1.000 <	1.000 <	1.000 <	1.000 <	Q-- E

===== No Statistical Results =====

CN - Total (mg/kg)						
ZINDZIWE	(1)	-	-	2.000 <	2.80	--- E
AL-West	(5)	1.52	-	-	-	Z-Z E
Alconheir	(7)	1.40	1.000 <	1.000 <	5.00 *	Z-- E
BLAUWHUIS	(14)	1.06	1.000 <	1.000 <	3.47	---
PAULINE	(18)	1.00 <	1.000 <	1.000 <	3.27	Z-- E
EXACT	(28)	4.00 **	1.000 <	1.000	1.00 < *	Z-- E
WELLAB	(35)	0.72	0.500 <	0.600	1.80	
ATM	(54)	1.90	1.000	1.200	4.00	Q-- E
ARCHIMEDES	(59)	1.01	1.000 <	-	-	Z-- E
TECHHK	(79)	1.00 <	1.000 <	1.000 <	1.00 < *	---Z
ORGDIMCH	(120)	1.00 <	1.000 <	1.000 <	2.79	Q-- E
LABAMB	(878)	1.18	0.240	0.460	2.47	Z-- O

===== Statistical Results =====

NDA mean	1.218	-	-	3.031
NDA st dev	0.377	-	-	0.775
N	8	2	4	8
Median	1.290	0.6200	0.8000	3.036
MAD	0.254	0.3800	0.2700	0.500

=====

EOX (mg/kg)						
ZINDZIWE	(1)	-	-	0.190	2.60	---MA
MLABTW	(4)	2.28	1.06	0.387	2.34	F--MA
AL-West	(5)	2.10	-	-	-	F--MA
Alconheir	(7)	3.20	2.10 **	0.630	2.40	Q--MA
BLAUWHUIS	(14)	2.11	0.87	0.330	2.30	---
PAULINE	(18)	2.32	1.08	0.180	2.61	Z--MA
EXACT	(28)	1.50	1.50	0.180	1.80 *	Q-- Q
ECOSPACE	(36)	5.00 <	5.00 <	5.000 <	5.00 <	J--MA
US	(39)	1.66	0.95	0.440	2.20	FVZMA
ATM	(54)	3.50	1.70 *	0.600	3.70 **	F--MA
ARCHIMEDES	(59)	2.52	0.89	-	-	Z--MA
HHAUFU	(134)	3.14	0.94	0.500 <	3.18 *	Q--MA

===== Statistical Results =====

NDA mean	2.361	1.011	0.3574	2.389
NDA st dev	0.660	0.253	0.2368	0.293
N	10	9	8	9
Median	2.303	1.063	0.3585	2.400
MAD	0.430	0.177	0.1735	0.200

=====

SETOC 2012.1 - Other parameters

Sample	791	792	784	776	MIC
Inorganic carbon (g/kg)					
TECHK (79)	19.3	10.6	10.4	43.7	---Z
EPILAB-1A (87)	19.3	10.5	10.9	43.3	---N
GAL (91)	19.5	12.2	10.1	42.6	---T
===== Statistical Results (no NDA) =====					
N	3	3	3	3	
Median	19.30	10.60	10.40	43.30	
MAD	-	0.10	0.30	0.40	
=====					
Mineral oil, GC (mg/kg)					
ZINDZIWE (1)	-	-	480	800	--H C
MLABTW (4)	479	1044	537	1226	FXKJA
AL-West (5)	406	-	-	-	Z-H S
Alconheir (7)	550	1300	630	1400 *	QXK S
ANM (8)	375	886	370	1032	C-HS
BLAUWHUIS (14)	370	805	510	938	---
HIDU (16)	501	1060	561	865	QXH S
PAULINE (18)	451	1023	558	993	FXK S
IMRN (27)	387	1007	468	893	ZUHJA
EXACT (28)	560	1200	570	1100	QXK S
ANATEK (29)	315	735	405	768	DWH S
ELML (33)	570	1320	740 *	1180	ZZZ S
US (39)	481	1105	529	963	FVZMA
JYUIER (41)	542	1308	549	914	Q-I S
CHEMLABSIT (52)	380	930	570	920	---
ATM (54)	713 *	796	972 **	1741 **	F-H S
ANAPBO (55)	506	1175	564	1017	ZXK S
ARCHIMEDES (59)	452	967	419	841	FXK S
GGM (60)	349	848	429	757	FXK S
ULS (61)	375	213 **	480	852	QXH R
QSANAL (76)	450	960	480	790	QXH S
BOREALIS (78)	381	1001	482	856	---
EPILAB-1A (87)	380	850	490	830	
GAL (91)	350	937	406	840	JXH S
STCRSC (92)	449	827	486	1849 **	JAJ S
VERITAS (101)	362	314 *	411	228 **	ZXK R
THO1808MAS (110)	420	1140	498	1110	CXI S
ORGDIMCH (120)	396	805	558	873	ZZZ R
HHAUFU (134)	607	1372	703 *	1257	QXK S
CH-SAMEN (469)	267	685	276 **	746	Q-HS
LAB607 (862)	530	1189	530	1054	
LABAMB (878)	560	1166	624	1167	J-K S
SHI (912)	250	564	237 **	454 *	QHH R
WANDSCH (958)	477	1133	596	1134	QXKS
PA2010LAB (1058)	560	1108	604	1141	ZXH S
===== Statistical Results =====					
NDA mean	440.9	1006	515.9	949.2	
NDA st dev	107.9	238	77.7	194.6	
N	34	33	34	34	
Median	449.5	1001	519.5	929.0	
MAD	74.5	165	50.5	134.0	
=====					
Mineral oil, IR (mg/kg)					
Alconheir (7)	470	890	440	950	---T
GAL (91)	444	832	478	858	EX-T
FPLL (115)	535	993	529	1087	QV-T
TAMPERE (911)	488	1060	515	972	
===== Statistical Results (no NDA) =====					
N	4	4	4	4	
Median	479.0	941.5	496.5	961.0	
MAD	22.0	80.5	25.5	57.0	
=====					

SETOC 2012.1 - Other parameters

Sample		791	792	784	776	MIC
Organic carbon (g/kg)						
BLAUWHUIS	(14)	36.3	42.7	27.5	30.7	---
HIDU	(16)	33.0	38.7	36.3	26.8	--- T
ANALGEO	(21)	28.7	29.9	25.4	21.2	---MA
QSANAL	(76)	30.0	37.6	32.6	23.9	Z-- T
TECHHK	(79)	36.6	42.3	39.1	31.8	---Z
EPILAB-1A	(87)	30.3	35.6	32.8	23.6	---N
GAL	(91)	30.2	34.6	30.7	23.7	--- T
FPLL	(115)	44.5	44.9	28.0	34.8	Z--M
ORGDIMCH	(120)	24.5	31.5	29.7	19.7	---YC
LABAMB	(878)	41.9	45.0	30.6	31.2	Z-- M
TAMPERE	(911)	79.4 **	50.8	34.0	82.3 **	
WANDSCH	(958)	40.0	38.0	24.0	31.0	---N

	Statistical Results			
NDA mean	33.82	39.02	30.65	27.14
NDA st dev	7.15	6.20	4.35	6.74
N	12	12	12	12
Median	34.65	38.35	30.65	28.75
MAD	5.00	4.15	2.90	4.95

Particles < 2 µm (%)						
MLABTW	(4)	29.9	24.7	14.1	21.6	ZZ-YA
BLAUWHUIS	(14)	29.8	22.4	13.4	20.7	---
GGM	(60)	28.2	21.0	12.6	16.2	---YA

	Statistical Results (no NDA)			
N	3	3	3	3
Median	29.80	22.40	13.40	20.70
MAD	0.14	1.43	0.72	0.94

Particles < 63 µm (%)						
BLAUWHUIS	(14)	79.7	65.3	41.4	92.7	---
BOREALIS	(78)	84.1	56.3	42.8	91.9	---

	Statistical Results (no NDA)			
N	2	2	2	2
Median	81.90	60.80	42.10	92.30
MAD	2.20	4.50	0.70	0.40

Particles > 63 µm (%)						
BLAUWHUIS	(14)	20.3	34.7	58.6	7.30	---
BOREALIS	(78)	15.9	43.7	57.2	8.10	---

	Statistical Results (no NDA)			
N	2	2	2	2
Median	18.10	39.20	57.90	7.700
MAD	2.20	4.50	0.70	0.400

SETOC 2012.1 - Metals

Sample	791	792	784	776	MIC
As (mg/kg)					
ZINDZIWE (1)	-	-	15.0	38.0	V--CC
MLABTW (4)	19.8	50.5	16.8	42.0	T--CC
BLAUWHUIS (14)	16.0	44.5	14.0 *	41.6	---
EXTAQS (25)	19.0	48.5	15.5	42.7	YV-CC
ELML (33)	17.2	44.0	15.1	39.2	YV-CC
WELLAB (35)	22.1 *	49.2	15.5	50.4	YV-CC
US (39)	17.3	50.3	15.9	48.8	T--CC
JYUIER (41)	19.3	49.1	16.0	44.4	V--CC
ATM (54)	28.3 **	61.4 **	22.9 **	59.3 **	U--CC
ANAPBO (55)	15.1	43.4	15.0	28.8 **	V - F
HILL (58)	18.0	49.0	16.0	49.0	Y--D
GGM (60)	17.7	45.5	15.0	43.4	VV- D
SGSECOPD (62)	19.0	48.0	16.0	47.0	U-- D
TECHHK (79)	17.5	46.5	15.4	43.3	T--D
EPILAB-1A (87)	17.8	49.0	15.7	43.7	
STCRSC (92)	15.8	42.0 *	18.5 **	53.4	T--CC
FPLL (115)	21.6	48.6	16.8	46.6	YV-F
ORGDIMCH (120)	16.5	44.0	14.8	39.6	U--CC
LABAMB (878)	16.7	46.0	15.3	42.0	Y--CC
TAMPERE (911)	19.0	47.8	15.9	46.8	V--CC
PA2010LAB (1058)	19.3	46.4	16.2	41.9	V--CC

	Statistical Results			
NDA mean	17.94	47.31	15.59	44.04
NDA st dev	1.86	2.60	0.72	4.86
N	20	20	21	21
Median	17.90	47.90	15.70	43.40
MAD	1.28	1.70	0.50	3.40

Ba (mg/kg)					
ZINDZIWE (1)	-	-	130	110	V--CC
MLABTW (4)	149	112	107	99	T--CC
BLAUWHUIS (14)	133	99	102	88	
ELML (33)	143	103	101	91	YV-CC
US (39)	123	91	85 *	76	T--CC
JYUIER (41)	168	142	123	132	V--CC
ATM (54)	105 *	131	131	127	U--CC
ANAPBO (55)	163	128	113	121	V--CC
HILL (58)	147	106	106	97	Y--D
GGM (60)	150	106	99	95	VV- D
SGSECOPD (62)	160	115	115	107	U-- D
TECHHK (79)	185	114	108	108	
EPILAB-1A (87)	154	120	118	108	
FPLL (115)	219 **	172 **	99	468 **	
ORGDIMCH (120)	155	117	111	106	
TAMPERE (911)	167	129	120	136	V-CC

	Statistical Results			
NDA mean	153.4	115.1	110.4	106.0
NDA st dev	16.2	16.9	12.5	18.7
N	15	15	16	16
Median	154.0	115.0	109.5	107.5
MAD	11.0	12.0	8.5	13.1

Cd (mg/kg)					
ZINDZIWE (1)	-	-	1.30	12.0	V--CC
MLABTW (4)	2.00	0.962	1.31	10.6	T--CC
BLAUWHUIS (14)	2.24	0.820	1.26	12.9	---
EXTAQS (25)	2.16	0.950	1.37	12.5	YV-CC

	Summary Statistics			
NDA mean	2.079	0.9224	1.253	12.60
NDA st dev	0.227	0.1412	0.096	1.27
N	19	19	20	21

(cont.)

SETOC 2012.1 - Metals

Sample		791	792	784	776	MIC
Cd (mg/kg) (cont.)						
ELML	(33)	1.98	0.630 *	1.13	11.2	YV-CC
WELLAB	(35)	2.06	1.254 *	1.27	12.4	YV-CC
US	(39)	2.27	1.330 *	1.21	13.7	T--CC
JYUIER	(41)	1.97	0.876	1.23	11.7	V--CC
ATM	(54)	5.70 **	4.100 **	3.40 **	15.1	U--CC
ANAPBO	(55)	1.98	0.690	1.03 *	13.3	V--CC
HILL	(58)	2.60 *	1.110	1.47 *	14.9	Y--D
GGM	(60)	2.04	0.880	1.22	12.5	VV- D
SGSECOPD	(62)	2.40	0.970	1.30	14.0	U-- D
TECHHK	(79)	2.34	0.989	1.31	13.2	T--Z
EPILAB-1A	(87)	2.22	0.956	1.36	12.9	
STCRSC	(92)	1.88	0.910	1.32	14.3	T--CC
FPLL	(115)	2.00 <	2.000 <	2.00 <	9.0 *	YV-AE
ORGDIMCH	(120)	2.02	1.045	1.13	12.1	U--CC
LABAMB	(878)	2.10	0.950	1.20	12.7	Y--CC
TAMPERE	(911)	1.85	0.840	1.13	11.5	V--CC
PA2010LAB	(1058)	1.78	0.670	1.08	11.1	V--CC

	Statistical Results			
NDA mean	2.079	0.9224	1.253	12.60
NDA st dev	0.227	0.1412	0.096	1.27
N	19	19	20	21
Median	2.059	0.9500	1.266	12.50
MAD	0.161	0.0945	0.061	0.84

Co (mg/kg)						
ZINDZIWE	(1)	-	-	6.00	14.0	V--CC
MLABTW	(4)	9.7	9.6	5.06	12.7	T--CC
BLAUWHUIS	(14)	11.2	9.8	5.79	16.2	
ELML	(33)	7.6 **	7.4 *	4.31 *	10.5 *	YV-CC
US	(39)	12.2	12.4	5.73	19.4 *	T--CC
JYUIER	(41)	11.3	10.2	5.85	14.9	V--CC
ATM	(54)	12.1	11.1	6.60	16.7	U--CC
ANAPBO	(55)	12.2	11.4	6.59	16.6	V--CC
HILL	(58)	12.2	10.5	6.00	18.2	Y--D
GGM	(60)	10.3	12.0	5.41	16.0	--- D
SGSECOPD	(62)	12.0	11.0	6.70	17.0	U-- D
TECHHK	(79)	11.5	10.5	5.83	16.4	
EPILAB-1A	(87)	11.9	11.2	6.41	17.3	
FPLL	(115)	5.3 **	11.7	12.80 **	13.6	
ORGDIMCH	(120)	9.8	9.4	5.71	13.5	
TAMPERE	(911)	9.8	9.3	5.49	15.5	V-CC
PA2010LAB	(1058)	11.7	10.9	6.80	15.0	V--CC

	Statistical Results			
NDA mean	11.43	10.70	5.958	15.80
NDA st dev	1.15	1.16	0.635	1.77
N	16	16	17	17
Median	11.41	10.70	5.850	16.04
MAD	0.80	0.81	0.439	1.13

Cr (mg/kg)						
ZINDZIWE	(1)	-	-	40.0	43.0	V--CC
MLABTW	(4)	78.7	44.7	37.8	43.0	T--CC
BLAUWHUIS	(14)	73.6	39.5	31.6	42.6	---
EXTAQS	(25)	77.6	44.7	34.4	43.8	YV-CC
ELML	(33)	54.8 **	30.2 *	24.5 *	28.3 *	YV-CC
WELLAB	(35)	79.3	45.4	36.2	46.6	YV-CC
US	(39)	65.9	39.8	24.8 *	36.3	T--CC

	Summary Statistics				
NDA mean	77.94	44.27	35.95	44.20	
NDA st dev	7.32	6.45	4.96	6.00	
N	20	20	21	21	(cont.)

SETOC 2012.1 - Metals

Sample		791	792	784	776	MIC
Cr (mg/kg) (cont.)						
JYUIER	(41)	89.4	52.4	40.6	50.0	V--CC
ATM	(54)	83.0	48.0	39.0	48.0	U--CC
ANAPBO	(55)	85.9	50.3	39.0	51.1	V--CC
HILL	(58)	69.0	35.0	28.0	39.0	Y--D
GGM	(60)	76.2	43.9	31.8	43.8	VV- D
SGSECOPD	(62)	79.0	45.0	37.0	45.0	U-- D
TECHHK	(79)	77.7	41.1	33.7	45.6	T--Z
EPILAB-1A	(87)	83.4	49.0	36.9	48.9	
STCRSC	(92)	77.5	43.4	37.9	45.8	T--CC
FPLL	(115)	83.5	51.8	42.6	34.6	YV-AE
ORGDIMCH	(120)	69.1	40.1	32.9	38.3	U--CC
LABAMB	(878)	80.0	45.0	36.0	47.0	Y--CC
TAMPERE	(911)	67.8	36.3	30.2	39.3	V--CC
PA2010LAB	(1058)	105.3 **	57.7 *	45.4	56.3 *	V--CC

	Statistical Results			
NDA mean	77.94	44.27	35.95	44.20
NDA st dev	7.32	6.45	4.96	6.00
N	20	20	21	21
Median	78.19	44.70	36.17	43.80
MAD	5.01	4.45	3.27	4.20

Cu (mg/kg)						
ZINDZIWE	(1)	-	-	47.0	210	V--CC
MLABTW	(4)	69.6	69.8	46.7	184	T--CC
BLAUWHUIS	(14)	81.3	74.2	47.6	228	---
EXTAQS	(25)	77.4	73.2	51.9	222	YV-CC
ELML	(33)	82.4	77.0	51.1	230	YV-CC
WELLAB	(35)	78.2	67.3	48.7	232	YV-CC
US	(39)	78.9	69.7	47.1	230	T--CC
JYUIER	(41)	74.7	67.6	43.1 *	209	V--CC
ATM	(54)	97.0 **	81.0 *	55.0 *	269 *	U--CC
ANAPBO	(55)	76.2	72.7	50.8	232	V--CC
HILL	(58)	79.0	74.0	49.0	220	Y--D
GGM	(60)	67.5	66.4	48.0	193	VV- D
SGSECOPD	(62)	84.0	77.0	48.0	230	U-- D
TECHHK	(79)	77.0	71.6	49.0	215	T--D
EPILAB-1A	(87)	73.3	71.3	48.7	208	
STCRSC	(92)	75.0	69.4	55.8 **	245	T--CC
FPLL	(115)	75.6	85.3 **	46.2	216	YV-AE
ORGDIMCH	(120)	68.8	68.9	44.3	193	U--CC
LABAMB	(878)	88.0 *	68.0	41.0 **	205	Y--CC
TAMPERE	(911)	70.3	67.2	48.2	215	V--CC
PA2010LAB	(1058)	75.8	67.8	51.5	208	V--CC

	Statistical Results			
NDA mean	76.35	70.54	48.33	217.6
NDA st dev	4.47	4.15	2.35	17.4
N	20	20	21	21
Median	76.59	70.56	48.20	216.0
MAD	2.85	2.87	1.54	12.0

Hg (mg/kg)						
ZINDZIWE	(1)	-	-	0.440	4.00	V--CC
MLABTW	(4)	1.09	2.71	0.420	3.79	T-- G
BLAUWHUIS	(14)	1.14	2.80	0.390	4.50	---
EXTAQS	(25)	1.13	2.89	0.450	4.99	YV-G
ELML	(33)	0.87	2.25 *	0.360	3.12 *	YV-CC
WELLAB	(35)	0.84	2.57	0.830 **	3.86	Y--G

	Summary Statistics				
NDA mean	1.084	2.777	0.4153	4.325	
NDA st dev	0.133	0.188	0.0631	0.481	
N	21	21	21	22	(cont.)

SETOC 2012.1 - Metals

Sample		791	792	784	776	MIC
Hg (mg/kg) (cont.)						
US	(39)	1.06	2.78	0.441	4.24	T--CC
JYUIER	(41)	0.97	2.88	0.407	4.55	V-- G
ATM	(54)	0.80 *	1.10 **	0.100 < **	2.00 **	U--CC
ANAPBO	(55)	1.01	2.40 *	0.370	3.96	V-- G
HILL	(58)	1.45 *	3.20 *	0.570 *	5.10	Y--D
GGM	(60)	1.12	2.79	0.464	4.30	VV- D
SGSECO	(62)	1.10	2.80	0.350	4.50	U-- D
TECHHK	(79)	0.93	2.53	0.430	4.18	T--G
EPILAB-1A	(87)	1.21	2.91	0.499	4.37	
GAL	(91)	1.18	2.81	0.420	3.83	Z-- Z
STCRSC	(92)	1.23	2.97	0.330	4.69	--- G
FPLL	(115)	2.00 **	2.90	1.200 **	5.50 *	ZV-G
ORGDIMCH	(120)	1.19	3.06	0.475	4.85	ZZZ G
LABAMB	(878)	1.10	2.60	0.350	4.20	Y--CC
TAMPERE	(911)	0.99	2.60	0.450	4.33	V--CC
PA2010LAB	(1058)	1.13	2.67	0.372	4.35	V-- G

	Statistical Results			
NDA mean	1.084	2.777	0.4153	4.325
NDA st dev	0.133	0.188	0.0631	0.481
N	21	21	21	22
Median	1.100	2.791	0.4300	4.314
MAD	0.090	0.123	0.0445	0.334

Mo (mg/kg)						
ZINDZIWE	(1)	-	-	1.20	1.50	V--CC
MLABTW	(4)	2.00 <	1.500 <	1.50 <	1.50 <	T--CC
BLAUWHUIS	(14)	1.50 <	1.500 <	1.50 <	1.50 <	
ELML	(33)	0.97	0.750	0.94	1.19	YV--CC
US	(39)	0.96	0.775	0.89	2.90 **	T--CC
JYUIER	(41)	1.63	1.220	1.34	1.86	V--CC
ATM	(54)	1.50	0.800	1.20	1.80	U--CC
ANAPBO	(55)	1.69	1.070	1.41	1.65	V--CC
HILL	(58)	1.30	1.000	1.20	1.70	Y--D
GGM	(60)	1.50 <	1.500 <	1.50 <	2.08	VV-
EPILAB-1A	(87)	1.57	1.250	1.27	1.87	
FPLL	(115)	1.00 <	1.000 <	1.30	1.00 < *	
ORGDIMCH	(120)	1.12	0.889	1.04	1.41	
TAMPERE	(911)	1.15	1.000 <	1.02	1.42	V--CC

	Statistical Results			
NDA mean	1.322	0.9538	1.177	1.657
NDA st dev	0.372	0.2277	0.199	0.293
N	9	8	11	11
Median	1.300	0.9447	1.200	1.700
MAD	0.270	0.1572	0.140	0.200

Ni (mg/kg)						
ZINDZIWE	(1)	-	-	18.0	27.0	V--CC
MLABTW	(4)	37.7	24.3	16.2	24.5	T--CC
BLAUWHUIS	(14)	40.3	23.1	15.3	27.0	---
EXTAQS	(25)	44.3	28.6	18.8	30.1	YV--CC
ELML	(33)	29.1 **	18.5 *	12.9	18.3 **	YV--CC
WELLAB	(35)	42.6	26.1	16.2	29.7	YV--CC
US	(39)	38.6	23.9	14.9	26.7	T--CC
JYUIER	(41)	39.9	24.7	15.9	26.7	V--CC
ATM	(54)	40.0	23.0	15.0	25.0	U--CC
ANAPBO	(55)	42.9	26.4	16.8	29.4	V--CC
HILL	(58)	42.0	24.0	15.0	30.0	Y--D

	Summary Statistics			
NDA mean	39.94	24.80	16.36	27.90
NDA st dev	3.48	2.16	1.78	2.83
N	20	20	21	21

(cont.)

SETOC 2012.1 - Metals

Sample	791	792	784	776	MIC
Ni (mg/kg) (cont.)					
GGM (60)	36.9	22.8	15.0	26.4	VV- D
SGSECOPD (62)	44.0	27.0	18.0	30.0	U-- D
TECHHK (79)	38.7	24.2	16.1	28.2	T--D
EPILAB-1A (87)	44.2	27.8	18.9	31.4	
STCRSC (92)	36.1	23.0	17.8	26.8	T--CC
FPLL (115)	35.9	29.7 *	26.5 **	29.3	YV-AE
ORGDIMCH (120)	36.4	23.9	16.4	24.7	U--CC
LABAMB (878)	41.0	26.0	16.6	29.0	Y--CC
TAMPERE (911)	38.9	24.8	16.3	29.1	V--CC
PA2010LAB (1058)	40.3	25.4	17.0	26.9	V--CC

	Statistical Results			
NDA mean	39.94	24.80	16.36	27.90
NDA st dev	3.48	2.16	1.78	2.83
N	20	20	21	21
Median	39.96	24.50	16.30	27.00
MAD	2.46	1.50	1.30	2.10

Pb (mg/kg)					
ZINDZIWE (1)	-	-	210	190	V--CC
MLABTW (4)	75.0	136	232	180	T--CC
BLAUWHUIS (14)	101.0	153	227	228	---
EXTAQS (25)	88.2	157	256	220	YV-CC
ELML (33)	64.1	109 *	203	138 **	YV-CC
WELLAB (35)	98.0	159	213	225	YV-CC
US (39)	90.2	160	244	256	T--CC
JYUIER (41)	79.2	136	194	194	V--CC
ATM (54)	76.0	145	235	207	U--CC
ANAPBO (55)	80.8	150	224	212	V--CC
HILL (58)	102.0	171	260	260	Y--D
GGM (60)	89.6	150	231	227	VV- D
SGSECOPD (62)	103.0	165	260	240	U-- D
TECHHK (79)	83.9	140	228	209	T--D
EPILAB-1A (87)	92.6	160	247	247	
STCRSC (92)	79.5	137	307 **	211	T--CC
FPLL (115)	88.8	168	260	223	YV-AE
ORGDIMCH (120)	70.0	126	220	171	U--CC
LABAMB (878)	89.0	153	210	225	Y--CC
TAMPERE (911)	74.5	138	215	209	V--CC
PA2010LAB (1058)	78.8	137	215	191	V--CC

	Statistical Results			
NDA mean	84.94	149.0	228.2	215.7
NDA st dev	10.87	16.0	23.3	24.5
N	20	20	21	21
Median	86.05	150.1	228.0	211.6
MAD	7.04	11.1	16.0	16.4

Zn (mg/kg)					
ZINDZIWE (1)	-	-	350	1600	V--CC
MLABTW (4)	329	266	368	1442	T--CC
BLAUWHUIS (14)	389	289	376	1628	---
EXTAQS (25)	376	301	393	1530	YV-CC
ELML (33)	356	275	382	1512	YV-CC
WELLAB (35)	402	281	367	1600	YV-CC
US (39)	366	289	380	1588	T--CC
JYUIER (41)	331	275	335	1550	V--CC
ATM (54)	397	303	392	1487	U--CC
ANAPBO (55)	389	308	387	1644	V--CC

	Summary Statistics			
NDA mean	372.3	288.8	374.5	1582
NDA st dev	25.5	15.3	20.6	103
N	20	20	21	21

(cont.)

SETOC 2012.1 - Metals

Sample		791	792	784	776	MIC
Zn (mg/kg)	(cont.)					
HILL	(58)	420	320 *	410	1760	Y--D
GGM	(60)	327	276	355	1403	VV- D
SGSECOPD	(62)	410	300	390	1700	U-- D
TECHHK	(79)	378	290	385	1650	T--D
EPILAB-1A	(87)	365	290	386	1500	
STCRSC	(92)	368	283	422 *	1706	T--CC
FPLL	(115)	370	299	469 **	1662	YV-AE
ORGDIMCH	(120)	356	281	356	1643	U--CC
LABAMB	(878)	375	300	360	1600	Y--CC
TAMPERE	(911)	331	266	346	1520	V--CC
PA2010LAB	(1058)	378	292	364	1444	V--CC

	Statistical Results			
NDA mean	372.3	288.8	374.5	1582
NDA st dev	25.5	15.3	20.6	103
N	20	20	21	21
Median	372.5	289.5	380.0	1600
MAD	16.5	10.5	13.4	70

SETOC 2012.1 - Dibenzo-P Dioxin

Sample		791	792	784	776	MIC
1,2,3,4,6,7,8 Cl7DD (ng/kg)						
ECOSPACE	(36)	61.0	45.0	22.0	794	
JYUIER	(41)	58.0	50.0 <	50.0 <	609	ZZH R
LAS	(48)	31.0 <	31.0 <	31.0 <	323	
ULS	(61)	539.0	100.0	430.0	718	BRH R
EPILAB-1A	(87)	76.0	44.0	28.0	806	
ORGDIMCH	(120)	85.2	58.5	32.0	933	ZZH R

	Statistical Results (no NDA)			
N	5	4	4	6
Median	76.00	51.77	30.01	756.0
MAD	15.00	7.27	5.01	98.5

1,2,3,4,7,8 Cl6DD (ng/kg)						
ECOSPACE	(36)	5.00 <	5.00 <	5.000 <	51.0	
JYUIER	(41)	50.00 <	50.00 <	50.000 <	100.0 <	ZZH R
LAS	(48)	21.00 <	20.00 <	20.000 <	30.4	
ULS	(61)	11.40	0.50 <	0.500 <	50.0	BRH R
EPILAB-1A	(87)	1.50	1.10	0.490	45.0	
ORGDIMCH	(120)	2.77	2.13	0.792	60.2	ZZH R

	Statistical Results (no NDA)			
N	3	2	2	5
Median	2.767	1.614	0.6408	50.00
MAD	1.267	0.514	0.1508	5.00

1,2,3,6,7,8 Cl6DD (ng/kg)						
ECOSPACE	(36)	5.00 <	5.00 <	5.00 <	59.0	
JYUIER	(41)	50.00 <	50.00 <	50.00 <	100.0 <	ZZH R
LAS	(48)	21.00 <	20.00 <	20.00 <	28.7	
ULS	(61)	32.20	0.50 <	22.90	54.3	BRH R
EPILAB-1A	(87)	4.50	3.20	1.20	50.0	
ORGDIMCH	(120)	6.49	6.48	2.95	66.7	ZZH R

	Statistical Results (no NDA)			
N	3	2	3	5
Median	6.486	4.841	2.950	54.30
MAD	1.986	1.641	1.750	4.70

1,2,3,7,8 Cl5DD (ng/kg)						
ECOSPACE	(36)	5.0 <	5.00 <	5.00 <	29.0	
JYUIER	(41)	50.0 <	50.00 <	50.00 <	100.0 <	ZZH R
LAS	(48)	16.0 <	15.00 <	15.00 <	17.0	
ULS	(61)	18.8	3.70	3.10	33.7	BRH R
EPILAB-1A	(87)	1.9	2.20	1.00	40.0	
ORGDIMCH	(120)	25.7	2.17	1.28	32.1	ZZH R

	Statistical Results (no NDA)			
N	3	3	3	5
Median	18.80	2.200	1.283	32.09
MAD	6.89	0.027	0.283	3.09

1,2,3,7,8,9 Cl6DD (ng/kg)						
ECOSPACE	(36)	5.00 <	5.00 <	5.00 <	50.0	
JYUIER	(41)	50.00 <	50.00 <	50.00 <	100.0 <	ZZH R
LAS	(48)	21.00 <	20.00 <	20.00 <	29.2	
ULS	(61)	32.20	0.50 <	16.50	35.5	BRH R
EPILAB-1A	(87)	4.20	1.70	1.67	45.0	

	Summary Statistics (No NDA)			
Median	5.649	2.881	1.953	45.00
MAD	1.449	1.181	0.283	9.50
N	3	2	3	5

(cont.)

SETOC 2012.1 - Dibenzo-P Dioxin

Sample	791	792	784	776	MIC
1,2,3,7,8,9 Cl6DD (ng/kg) (cont.)					
ORGDIMCH (120)	5.65	4.06	1.95	60.4	ZZH R
===== Statistical Results (no NDA) =====					
N	3	2	3	5	
Median	5.649	2.881	1.953	45.00	
MAD	1.449	1.181	0.283	9.50	
=====					
2,3,7,8 Cl4DD (ng/kg)					
ECOSPACE (36)	9.00	24.0	3.00 <	10.0	
JYUIER (41)	50.00 <	50.0 <	50.00 <	100.0 <	ZZH R
LAS (48)	10.00 <	17.7	10.00 <	10.0 <	
ULS (61)	18.30	29.2	4.60	12.0	BRH R
EPILAB-1A (87)	6.90	19.0	2.30	10.9	
ORGDIMCH (120)	9.34	25.5	2.23	12.2	ZZH R
===== Statistical Results (no NDA) =====					
N	4	5	3	4	
Median	9.169	24.00	2.300	11.43	
MAD	1.219	5.00	0.072	0.63	
=====					
Cl8DD (ng/kg)					
ECOSPACE (36)	612	277	130	3510	
JYUIER (41)	377	130	50	2230	ZZH R
LAS (48)	186	102 <	102 <	1560	
ULS (61)	1421	575	2354	3170	BRH R
EPILAB-1A (87)	747	178	177	4193	
ORGDIMCH (120)	818	362	194	3984	ZZH R
===== Statistical Results (no NDA) =====					
N	6	5	5	6	
Median	679.5	277.0	177.0	3340	
MAD	220.4	99.0	47.0	749	
=====					

SETOC 2012.1 - Dibenzofuran

Sample		791	792	784	776	MIC
1,2,3,4,6,7,8 Cl7DF (ng/kg)						
ECOSPACE	(36)	168	96.0	52.0	8125	
LAS	(48)	52	54.6	31.0 <	5210	
ULS	(61)	419	169.0	248.0	8027	BRH R
EPILAB-1A	(87)	200	92.0	59.0	6140	
ORGDIMCH	(120)	186	114.2	63.9	10175	ZZH R
===== Statistical Results (no NDA) =====						
N		5	5	4	5	
Median		185.7	96.00	61.44	8027	
MAD		17.7	18.17	5.94	1887	
=====						
1,2,3,4,7,8 Cl6DF (ng/kg)						
ECOSPACE	(36)	50.0	64.0	11.0	1898	
JYUIER	(41)	50.0 <	50.0 <	50.0 <	100 <	ZZH R
LAS	(48)	21.0 <	27.0	20.0 <	1350	
ULS	(61)	63.6	26.3	47.4	1252	BRH R
EPILAB-1A	(87)	49.0	56.0	13.0	1626	
ORGDIMCH	(120)	69.2	80.0	15.0	2049	ZZH R
===== Statistical Results (no NDA) =====						
N		4	5	4	5	
Median		56.80	56.00	13.99	1626	
MAD		7.30	23.99	1.99	276	
=====						
1,2,3,4,7,8,9 Cl7DF (ng/kg)						
ECOSPACE	(36)	19.0	5.00	5.00 <	1572	
JYUIER	(41)	54.0	50.00 <	50.00 <	1779	ZZH R
LAS	(48)	31.0 <	31.00 <	31.00 <	1540	
ULS	(61)	54.4	9.90	92.80	1434	BRH R
EPILAB-1A	(87)	27.0	4.10	3.60	1552	
ORGDIMCH	(120)	29.9	6.56	4.72	1980	ZZH R
===== Statistical Results (no NDA) =====						
N		5	4	3	6	
Median		29.91	5.781	4.715	1562	
MAD		10.91	1.231	1.115	75	
=====						
1,2,3,6,7,8 Cl6DF (ng/kg)						
ECOSPACE	(36)	19.0	6.00	5.00 <	900	
JYUIER	(41)	50.0 <	50.00 <	50.00 <	1757	ZZH R
LAS	(48)	21.0 <	20.00 <	20.00 <	644	
ULS	(61)	42.7	8.40	7.55	618	BRH R
EPILAB-1A	(87)	20.0	4.40	3.50	842	
ORGDIMCH	(120)	21.0	5.88	4.94	936	ZZH R
===== Statistical Results (no NDA) =====						
N		4	4	3	6	
Median		20.51	5.938	4.935	871.0	
MAD		1.01	0.800	1.435	145.8	
=====						
1,2,3,7,8 Cl5DF (ng/kg)						
ECOSPACE	(36)	21.0	5.00	5.00 <	377	
JYUIER	(41)	50.0 <	50.00 <	50.00 <	100 <	ZZH R
LAS	(48)	16.0 <	15.00 <	15.00 <	365	
ULS	(61)	177.0	14.40	36.80	447	BRH R
EPILAB-1A	(87)	23.0	5.60	4.40	371	
ORGDIMCH	(120)	25.9	4.76	4.20	404	ZZH R
===== Statistical Results (no NDA) =====						
N		4	4	3	5	
Median		24.43	5.300	4.400	377.0	
MAD		2.43	0.419	0.201	12.0	

SETOC 2012.1 - Dibenzofuran

Sample		791	792	784	776	MIC
1,2,3,7,8,9 Cl6DF (ng/kg)						
ECOSPACE	(36)	5.0 <	5.0 <	5.00 <	119	
JYUIER	(41)	50.0 <	50.0 <	50.00 <	100 <	ZZH R
LAS	(48)	21.0 <	20.0 <	20.00 <	674	
ULS	(61)	44.3	0.5 <	0.50 <	220	BRH R
EPILAB-1A	(87)	0.8	75.0	0.81	34	
ORGDIMCH	(120)	12.1	4.1	2.05	619	ZZH R
===== Statistical Results (no NDA) =====						
N		3	2	2	5	
Median		12.09	39.54	1.432	220.0	
MAD		11.30	35.46	0.622	186.0	
=====						
2,3,4,6,7,8 Cl6DF (ng/kg)						
ECOSPACE	(36)	11.0	5.00 <	5.00 <	477	
JYUIER	(41)	50.0 <	50.00 <	50.00 <	225	ZZH R
LAS	(48)	21.0 <	20.00 <	20.00 <	508	
ULS	(61)	13.7	2.25	1.85	250	BRH R
EPILAB-1A	(87)	10.0	3.10	2.80	411	
ORGDIMCH	(120)	16.0	7.07	4.02	647	ZZH R
===== Statistical Results (no NDA) =====						
N		4	3	3	6	
Median		12.35	3.100	2.800	444.0	
MAD		1.85	0.850	0.950	129.0	
=====						
2,3,4,7,8 Cl5DF (ng/kg)						
ECOSPACE	(36)	15.0	48.0	5.00 <	290	
JYUIER	(41)	50.0 <	50.0 <	50.00 <	100 <	ZZH R
LAS	(48)	16.0 <	22.2	15.00 <	255	
ULS	(61)	87.2	55.7	50.40	253	BRH R
EPILAB-1A	(87)	16.5	62.0	7.10	318	
ORGDIMCH	(120)	25.2	76.3	6.96	417	ZZH R
===== Statistical Results (no NDA) =====						
N		4	5	3	5	
Median		20.86	55.70	7.100	290.0	
MAD		5.11	7.70	0.137	35.0	
=====						
2,3,7,8 Cl4DF (ng/kg)						
ECOSPACE	(36)	24.0	15.0	4.00	196	
JYUIER	(41)	50.0 <	50.0 <	50.00 <	447	ZZH R
LAS	(48)	10.0 <	10.0 <	10.00 <	168	
ULS	(61)	69.0	22.4	8.90	220	BRH R
EPILAB-1A	(87)	32.0	8.5	2.70	251	
ORGDIMCH	(120)	25.2	12.6	4.68	193	ZZH R
===== Statistical Results (no NDA) =====						
N		4	4	4	6	
Median		28.60	13.78	4.341	208.0	
MAD		4.00	3.25	0.991	27.4	
=====						
Cl8DF (ng/kg)						
ECOSPACE	(36)	1545	162	105	26240	
JYUIER	(41)	858	132	50	15950	ZZH R
LAS	(48)	668	135	102 <	17000	
ULS	(61)	1456	337	1014	27400	BRH R
EPILAB-1A	(87)	804	198	163	19770	
===== Summary Statistics (No NDA) =====						
Median		1157	180.0	163.0	23007	
MAD		371	46.2	58.0	5200	
N		6	6	5	6	(cont.)

SETOC 2012.1 - Dibenzofuran

Sample	791	792	784	776	MIC
C18DF (ng/kg) (cont.) ORGDIMCH (120)	2188	227	167	36510	ZZH R
===== Statistical Results (no NDA) =====					
N	6	6	5	6	
Median	1157	180.0	163.0	23007	
MAD	371	46.2	58.0	5200	
=====					

SETOC 2012.1 - Experimental

Sample	791	792	784	776	MIC
Tributyl Tin (TBT) (µg/kg)					
TECHHK (79)	19.0	19.0	17.0	74.0	
ORGDIMCH (120)	23.2	25.4	42.1	75.5	ZZZ R
LABAMB (878)	36.5	56.0	115.0	162.0	Z-HJA
	=====	Statistical Results (no NDA)		=====	
N	3	3	3	3	
Median	23.19	25.39	42.14	75.49	
MAD	4.19	6.39	25.14	1.49	
	=====				

SETOC 2012.1 Z - Scores

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ZINDZIWE (1)				
anthracene (PAH)	-	-	0.10	-1.15
benz(a)anthracene (PAH)	-	-	-0.28	-0.49
benzo(a)pyrene (PAH)	-	-	1.34	-0.22
benzo(ghi)perylene (PAH)	-	-	1.81	4.12 **
benzo(k)fluoranthene (PAH)	-	-	0.67	0.36
chrysene (PAH)	-	-	0.64	-0.39
fluoranthene (PAH)	-	-	0.77	-0.31
indeno(1,2,3-cd)pyrene (PAH)	-	-	1.17	4.09 **
naphtalene (PAH)	-	-	-0.38	-0.18
phenanthrene (PAH)	-	-	0.31	-0.27
PCB 028 (PCB)	-	-	<	-0.30
PCB 052 (PCB)	-	-	<	-1.32
PCB 101 (PCB)	-	-	<	-1.19
PCB 118 (PCB)	-	-	<	-0.72
PCB 138 (PCB)	-	-	<	-1.46
PCB 153 (PCB)	-	-	-0.69	-1.62
PCB 180 (PCB)	-	-	-1.36	-1.65
aldrin (OCB)	-	-	< #	< #
alpha-endosulfan (OCB)	-	-	< #	< #
alpha-HCH (OCB)	-	-	< #	< #
beta-HCH (OCB)	-	-	< #	< #
dieldrin (OCB)	-	-	< #	< #
endrin (OCB)	-	-	< #	< #
gamma-HCH (OCB)	-	-	< #	< #
heptachlor (OCB)	-	-	< #	< #
heptachlor epoxide (OCB)	-	-	< #	< #
hexachlorobenzene (OCB)	-	-	< #	-0.40
hexachlorobutadiene (OCB)	-	-	< #	#
isodrin (OCB)	-	-	< #	< #
o,p`-DDD (OCB)	-	-	< #	#
o,p`-DDE (OCB)	-	-	< #	< #
o,p`-DDT (OCB)	-	-	< #	< #
p,p`-DDD (OCB)	-	-	< #	< #
p,p`-DDE (OCB)	-	-	< #	< #
p,p`-DDT (OCB)	-	-	< #	< #
pentachlorobenzene (OCB)	-	-	< #	< #
telodrin (OCB)	-	-	< #	< #
CN - Free (OD)	-	-	< #	< #
CN - Total (OD)	-	-	< #	-0.30
EOX (OD)	-	-	-0.71	0.72
Mineral oil, GC (OD)	-	-	-0.46	-0.77
As (MET)	-	-	-0.82	-1.24
Ba (MET)	-	-	1.57	0.21
Cd (MET)	-	-	0.49	-0.47
Co (MET)	-	-	0.07	-1.02
Cr (MET)	-	-	0.82	-0.20
Cu (MET)	-	-	-0.56	-0.44
Hg (MET)	-	-	0.39	-0.68
Mo (MET)	-	-	0.12	-0.54
Ni (MET)	-	-	0.92	-0.32
Pb (MET)	-	-	-0.78	-1.05
Zn (MET)	-	-	-1.19	0.17
BOANALHOAG (2)				
acenaphtene (PAH)	-1.20	-2.17 *	-2.38 *	-0.84
acenaphtylene (PAH)	-0.18	-0.12	-0.49	0.58
anthracene (PAH)	-1.81	-1.85	-2.21 *	-0.27
benz(a)anthracene (PAH)	-3.45 **	-4.35 **	-3.82 **	-2.42 *
benzo(a)pyrene (PAH)	-0.47	-1.71	-1.97	1.14
benzo(b)fluoranthene (PAH)	-1.90	-2.17 *	-1.89	-0.71
benzo(ghi)perylene (PAH)	-2.42 *	-3.27 **	-2.01 *	0.03
benzo(k)fluoranthene (PAH)	-3.13 **	-4.56 **	-3.15 **	-1.50
chrysene (PAH)	-2.49 *	-3.57 **	-3.02 **	-2.04 *
dibenz(ah)anthracene (PAH)	-0.72	-2.24 *	-2.13 *	-0.65
fluoranthene (PAH)	-2.57 *	-3.05 **	-3.86 **	-1.01
fluorene (PAH)	-1.72	-1.90	-1.79	-0.30

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
BOANALHOAG (2) (cont.)				
indeno(1,2,3-cd)pyrene (PAH)	-2.83 *	-3.85 **	-2.04 *	-0.80
naphtalene (PAH)	-1.69	-1.52	-1.45	-0.99
phenanthrene (PAH)	-2.77 *	-4.17 **	-4.55 **	-0.57
pyrene (PAH)	-2.64 *	-3.48 **	-4.13 **	-1.56
MLABTW (4)				
acenaphtene (PAH)	<	<	208.90 **	-4.59 **
acenaphtylene (PAH)	<	<	<	<
anthracene (PAH)	-0.72	-0.25	-1.68	0.34
benz(a)anthracene (PAH)	0.16	0.11	-2.13 *	3.93 **
benzo(a)pyrene (PAH)	0.18	0.39	-3.63 **	11.92 **
benzo(b)fluoranthene (PAH)	-0.55	-0.76	-0.49	0.29
benzo(ghi)perylene (PAH)	2.65 *	6.35 **	0.60	6.21 **
benzo(k)fluoranthene (PAH)	0.30	-0.13	-0.79	1.79
chrysene (PAH)	0.04	0.33	-1.50	2.76 *
dibenz(ah)anthracene (PAH)	<	-0.32	-1.71	0.12
fluoranthene (PAH)	-0.10	-0.25	2.64 *	-1.36
fluorene (PAH)	<	-0.51	167.03 **	-6.39 **
indeno(1,2,3-cd)pyrene (PAH)	1.59	2.80 *	-0.28	4.35 **
naphtalene (PAH)	0.17	0.16	6.03 **	-2.00
phenanthrene (PAH)	-0.12	-0.22	79.48 **	-6.77 **
pyrene (PAH)	-0.58	-0.55	0.55	-0.61
PCB 028 (PCB)	1.19	1.01	<	3.09 **
PCB 052 (PCB)	0.12	-0.13	<	0.59
PCB 101 (PCB)	0.43	-0.11	<	<
PCB 118 (PCB)	1.89	1.90	<	<
PCB 138 (PCB)	0.47	-0.08	1.34	-0.34
PCB 153 (PCB)	1.66	0.39	3.09 **	-0.01
PCB 180 (PCB)	1.92	0.50	1.24	-0.41
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-0.07	#	< #	0.35
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	#	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	#	0.14	< #	< #
p,p`-DDE (OCB)	-0.19	0.10	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
telodrin (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
EOX (OD)	-0.12	0.20	0.13	-0.16
Mineral oil, GC (OD)	0.35	0.16	0.28	1.42
Particles < 2 µm (OD)	#	#	#	#
As (MET)	0.97	1.22	1.74	-0.41
Ba (MET)	-0.30	-0.16	-0.29	-0.37
Cd (MET)	-0.33	0.28	0.61	-1.55
Co (MET)	-1.53	-0.94	-1.42	-1.75
Cr (MET)	0.10	0.07	0.36	-0.20
Cu (MET)	-1.51	-0.17	-0.71	-1.92
Hg (MET)	0.07	-0.38	0.07	-1.11
Mo (MET)	<	<	<	<
Ni (MET)	-0.63	-0.22	-0.09	-1.19
Pb (MET)	-0.92	-0.83	0.17	-1.47
Zn (MET)	-1.69	-1.52	-0.34	-1.36

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
AL-West (5)				
anthracene (PAH)	-1.11	-	-	-
benz(a)anthracene (PAH)	-1.29	-	-	-
benzo(a)pyrene (PAH)	-0.32	-	-	-
benzo(ghi)perylene (PAH)	-0.44	-	-	-
benzo(k)fluoranthene (PAH)	-0.37	-	-	-
chrysene (PAH)	-0.71	-	-	-
fluoranthene (PAH)	-0.93	-	-	-
indeno(1,2,3-cd)pyrene (PAH)	0.05	-	-	-
naphtalene (PAH)	-1.33	-	-	-
phenanthrene (PAH)	-1.91	-	-	-
PCB 028 (PCB)	-0.08	-	-	-
PCB 052 (PCB)	0.85	-	-	-
PCB 101 (PCB)	0.25	-	-	-
PCB 118 (PCB)	-0.78	-	-	-
PCB 138 (PCB)	0.09	-	-	-
PCB 153 (PCB)	-0.02	-	-	-
PCB 180 (PCB)	0.67	-	-	-
CN - Total (OD)	0.80	-	-	-
EOX (OD)	-0.40	-	-	-
Mineral oil, GC (OD)	-0.33	-	-	-
Alconheir (7)				
acenaphtene (PAH)	0.76	0.63	0.21	0.11
acenaphtylene (PAH)	5.05 **	2.29 *	1.98	1.69
anthracene (PAH)	1.06	0.67	-0.15	0.30
benz(a)anthracene (PAH)	0.19	0.25	-0.28	-0.24
benzo(a)pyrene (PAH)	0.28	0.18	-0.18	-0.22
benzo(b)fluoranthene (PAH)	1.21	1.68	1.03	0.93
benzo(ghi)perylene (PAH)	0.50	0.72	-0.13	0.20
benzo(k)fluoranthene (PAH)	1.64	2.46 *	0.67	1.12
chrysene (PAH)	-0.23	-0.32	-0.01	0.17
dibenz(ah)anthracene (PAH)	1.31	-0.06	-0.07	-0.25
fluoranthene (PAH)	0.61	0.13	-0.47	-0.21
fluorene (PAH)	1.09	0.26	0.34	-0.15
indeno(1,2,3-cd)pyrene (PAH)	0.60	-0.01	-0.54	-0.22
naphtalene (PAH)	0.90	-0.20	-0.19	-0.08
phenanthrene (PAH)	1.19	0.12	-0.33	0.34
pyrene (PAH)	0.44	0.65	-0.56	-0.15
PCB 028 (PCB)	0.97	0.25	<	-2.87 < *
PCB 052 (PCB)	1.89	2.37 *	<	0.56
PCB 101 (PCB)	1.00	0.50	<	0.14
PCB 118 (PCB)	1.22	1.06	<	0.69
PCB 138 (PCB)	0.81	0.99	0.48	1.72
PCB 153 (PCB)	1.31	1.76	1.19	0.64
PCB 180 (PCB)	0.78	1.03	0.25	0.85
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	0.48	< #	< #	2.54 *
EOX (OD)	1.27	4.31 **	1.15	0.04
Mineral oil, GC (OD)	1.01	1.24	1.47	2.32 *
Mineral oil, IR (OD)	#	#	#	#
ANM (8)				
acenaphtene (PAH)	-0.03	0.25	0.77	0.84
acenaphtylene (PAH)	-0.39	-0.11	-0.29	-0.05
anthracene (PAH)	-0.13	0.05	0.14	0.30
benz(a)anthracene (PAH)	0.89	2.48 *	0.29	1.25
benzo(a)pyrene (PAH)	0.64	1.08	-0.39	0.80
benzo(b)fluoranthene (PAH)	0.74	1.29	-0.17	0.51
benzo(ghi)perylene (PAH)	-0.29	-0.64	-1.97	-1.11
benzo(k)fluoranthene (PAH)	4.76 **	8.20 **	4.49 **	4.47 **
chrysene (PAH)	1.38	2.79 *	0.95	2.32 *
dibenz(ah)anthracene (PAH)	0.39	0.21	0.03	-0.11
fluoranthene (PAH)	0.61	1.28	-0.31	0.37
fluorene (PAH)	-0.30	-0.29	0.28	0.77
indeno(1,2,3-cd)pyrene (PAH)	-0.21	-0.85	-1.74	-1.04
naphtalene (PAH)	-0.33	-0.40	-0.32	0.08

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ANM (8) (cont.)				
phenanthrene (PAH)	-0.21	-0.64	-0.43	1.00
pyrene (PAH)	0.87	1.66	-0.28	0.32
PCB 028 (PCB)	3.05 **	<	0.28	-3.35 < **
PCB 052 (PCB)	6.49 **	15.85 **	8.53 **	8.94 **
PCB 101 (PCB)	1.88	1.30	5.50 **	1.78
PCB 118 (PCB)	0.44	0.11	2.54 *	-0.58
PCB 138 (PCB)	1.42	2.20 *	3.53 **	0.71
PCB 153 (PCB)	0.30	0.44	2.92 *	-0.53
PCB 180 (PCB)	-0.17	0.60	1.18	-0.65
Mineral oil, GC (OD)	-0.61	-0.51	-1.88	0.43
BLAUWHUIS (14)				
anthracene (PAH)	-0.33	0.00	0.80	0.83
benz(a)anthracene (PAH)	-0.69	-0.99	-0.85	-1.14
benzo(a)pyrene (PAH)	-0.13	-0.06	-0.20	-0.40
benzo(ghi)perylene (PAH)	-0.81	-0.87	-0.99	-0.52
benzo(k)fluoranthene (PAH)	-0.25	-0.98	-0.02	-0.03
chrysene (PAH)	0.07	0.15	0.34	0.26
fluoranthene (PAH)	-0.46	-1.09	-0.44	-0.74
indeno(1,2,3-cd)pyrene (PAH)	-0.68	-0.61	-0.69	-0.43
naphtalene (PAH)	-0.39	-0.81	-0.35	-0.34
phenanthrene (PAH)	-0.98	-1.56	-1.46	-0.60
PCB 028 (PCB)	-1.07	<	<	0.02
PCB 052 (PCB)	-1.39	-0.42	<	-0.73
PCB 101 (PCB)	-1.28	-0.73	-0.87	-0.07
PCB 118 (PCB)	-1.27	-0.62	<	-0.30
PCB 138 (PCB)	-0.71	-0.95	-0.68	0.07
PCB 153 (PCB)	-0.42	-0.49	-0.77	-0.20
PCB 180 (PCB)	-0.80	-1.03	-0.54	-0.06
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-1.09	< #	< #	0.61
p,p`-DDT (OCB)	< #	< #	< #	#
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	-0.42	< #	< #	0.57
EOX (OD)	-0.38	-0.56	-0.12	-0.30
Mineral oil, GC (OD)	-0.66	-0.85	-0.08	-0.06
Organic carbon (OD)	0.35	0.59	-0.72	0.53
Particles < 2 µm (OD)	#	#	#	#
Particles < 63 µm (OD)	#	#	#	#
Particles > 63 µm (OD)	#	#	#	#
As (MET)	-1.04	-1.08	-2.21 *	-0.50
Ba (MET)	-1.26	-0.98	-0.67	-0.95
Cd (MET)	0.71	-0.73	0.07	0.23
Co (MET)	-0.20	-0.77	-0.26	0.23
Cr (MET)	-0.59	-0.74	-0.88	-0.27
Cu (MET)	1.11	0.88	-0.31	0.60
Hg (MET)	0.42	0.12	-0.40	0.36
Mo (MET)	<	<	<	<
Ni (MET)	0.10	-0.79	-0.60	-0.32
Pb (MET)	1.48	0.25	-0.05	0.50
Zn (MET)	0.66	0.01	0.07	0.44
FRIDOLIN (15)				
acenaphtene (PAH)	0.52	0.61	0.02	0.94
acenaphtylene (PAH)	-1.17	-1.48	-1.96	-1.09
anthracene (PAH)	0.32	0.22	-0.14	0.31
benz(a)anthracene (PAH)	0.47	1.05	0.68	-0.23
benzo(a)pyrene (PAH)	-0.03	-0.22	-0.20	-0.75
benzo(b)fluoranthene (PAH)	-0.45	-0.72	-0.79	-1.00
benzo(ghi)perylene (PAH)	-0.18	-0.64	-0.26	-0.33
benzo(k)fluoranthene (PAH)	1.06	0.54	0.32	0.33
chrysene (PAH)	1.14	1.27	0.77	0.49
dibenz(ah)anthracene (PAH)	-0.37	-0.59	-1.53	-0.90
fluoranthene (PAH)	0.73	0.21	0.60	0.28

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
FRIDOLIN (15) (cont.)				
fluorene (PAH)	0.22	0.46	-0.12	1.27
indeno(1,2,3-cd)pyrene (PAH)	-0.45	-2.16 *	-0.42	-0.36
naphtalene (PAH)	1.20	1.19	0.88	0.91
phenanthrene (PAH)	0.47	0.40	-0.01	0.64
pyrene (PAH)	0.70	1.07	-0.26	0.49
PCB 028 (PCB)	-0.38	-0.42	-0.35	-0.43
PCB 052 (PCB)	-0.10	-0.23	-0.42	0.11
PCB 101 (PCB)	0.69	0.02	0.04	1.42
PCB 118 (PCB)	-0.06	-0.60	-0.48	-0.56
PCB 138 (PCB)	0.46	-0.41	-0.49	0.27
PCB 153 (PCB)	-0.40	-0.73	-0.90	-0.37
PCB 180 (PCB)	-0.23	-0.96	-0.80	-0.33
HIDU (16)				
acenaphtene (PAH)	-0.26	-0.12	-0.73	-0.37
acenaphtylene (PAH)	0.34	0.40	0.76	0.82
anthracene (PAH)	0.92	2.24 *	0.49	1.07
benz(a)anthracene (PAH)	0.43	0.61	-1.21	-0.10
benzo(a)pyrene (PAH)	0.86	1.69	0.06	1.73
benzo(b)fluoranthene (PAH)	-0.32	-0.50	-1.21	-0.31
benzo(ghi)perylene (PAH)	-0.34	0.13	0.70	1.14
benzo(k)fluoranthene (PAH)	-0.14	-0.77	-1.38	0.21
chrysene (PAH)	0.04	0.13	-0.49	0.46
dibenz(ah)anthracene (PAH)	-0.39	0.65	0.74	1.09
fluoranthene (PAH)	-0.60	-1.07	-2.66 *	-0.43
fluorene (PAH)	0.29	1.15	-0.30	-0.68
indeno(1,2,3-cd)pyrene (PAH)	0.21	0.66	0.58	0.84
naphtalene (PAH)	-0.30	-0.01	1.04	0.42
phenanthrene (PAH)	0.52	1.18	0.58	-0.14
pyrene (PAH)	0.40	1.57	-0.75	0.93
PCB 028 (PCB)	-0.56	-0.92	5.83 **	-0.94
PCB 052 (PCB)	-1.01	-0.24	<	-0.51
PCB 101 (PCB)	-0.37	-0.28	<	-0.62
PCB 118 (PCB)	-0.64	-0.66	<	-1.42
PCB 138 (PCB)	-0.18	-0.73	0.14	-0.76
PCB 153 (PCB)	-0.50	-1.30	-0.45	-1.10
PCB 180 (PCB)	-0.82	-1.77	-1.45	-1.65
Mineral oil, GC (OD)	0.56	0.23	0.58	-0.43
Organic carbon (OD)	-0.11	-0.05	1.30	-0.05
PAULINE (18)				
acenaphtene (PAH)	0.51	0.90	2.11 *	0.65
acenaphtylene (PAH)	4.55 **	3.79 **	5.63 **	3.61 **
anthracene (PAH)	0.36	-0.01	1.68	2.21 *
benz(a)anthracene (PAH)	0.81	0.02	1.97	0.95
benzo(a)pyrene (PAH)	-0.74	-1.03	1.78	0.29
benzo(b)fluoranthene (PAH)	2.00 *	1.96	3.67 **	2.82 *
benzo(ghi)perylene (PAH)	1.38	0.97	2.16 *	0.97
benzo(k)fluoranthene (PAH)	1.40	1.05	2.47 *	1.57
chrysene (PAH)	1.17	0.40	1.74	1.24
dibenz(ah)anthracene (PAH)	1.42	0.79	1.92	1.21
fluoranthene (PAH)	1.01	0.02	2.61 *	1.84
fluorene (PAH)	0.69	0.36	2.28 *	1.43
indeno(1,2,3-cd)pyrene (PAH)	1.12	0.97	1.97	1.23
naphtalene (PAH)	0.23	-0.11	0.16	-0.08
phenanthrene (PAH)	0.18	-0.52	1.97	1.66
pyrene (PAH)	-4.65 < **	-0.30	2.42 *	1.10
PCB 028 (PCB)	-0.77	<	<	0.05
PCB 052 (PCB)	-0.67	23.03 **	<	-0.57
PCB 101 (PCB)	-1.02	56.10 **	-0.04	-1.82
PCB 118 (PCB)	-0.68	34.11 **	<	-0.65
PCB 138 (PCB)	-0.01	61.21 **	0.67	-1.00
PCB 153 (PCB)	-0.82	50.20 **	-0.58	-0.61
PCB 180 (PCB)	-1.30	49.01 **	-0.44	-0.56
1,2,3 trichlorobenzene (OCB)	< #	< #	< #	< #
1,2,3,4 tetrachlorobenzene (OCB)	< #	< #	< #	< #

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
PAULINE (18) (cont.)				
1,2,4 trichlorobenzene (OCB)	#	#	< #	#
1,3,5 trichlorobenzene (OCB)	#	#	< #	#
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-1.17	< #	< #	1.01
hexachlorobutadiene (OCB)	< #	< #	< #	#
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	<	< #	< #
p,p`-DDE (OCB)	-3.44 < **	<	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
pentachlorobenzene (OCB)	< #	< #	< #	#
Sum tetrachlorobenzenes (OCB)	< #	< #	< #	#
Sum trichlorobenzenes (OCB)	#	#	< #	#
telodrin (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	<	< #	< #	0.31
EOX (OD)	-0.06	0.26	-0.75	0.75
Mineral oil, GC (OD)	0.10	0.07	0.54	0.23
RIZA-IMLO (20)				
acenaphtene (PAH)	1.10	1.34	-0.12	-0.23
acenaphtylene (PAH)	<	<	<	-1.21
anthracene (PAH)	0.85	0.72	-0.13	0.39
benz(a)anthracene (PAH)	0.37	-0.85	-0.18	0.15
benzo(a)pyrene (PAH)	-0.14	-0.01	1.02	1.52
benzo(b)fluoranthene (PAH)	0.05	-0.53	-0.23	0.05
benzo(ghi)perylene (PAH)	1.22	-0.09	1.06	1.16
benzo(k)fluoranthene (PAH)	0.47	0.08	0.40	0.38
chrysene (PAH)	1.18	0.39	-0.29	0.41
dibenz(ah)anthracene (PAH)	-0.75	-0.96	-0.86	-1.15
fluoranthene (PAH)	0.30	-0.78	0.01	1.29
fluorene (PAH)	-0.26	-0.62	-0.61	0.26
indeno(1,2,3-cd)pyrene (PAH)	0.45	0.33	0.14	0.62
naphtalene (PAH)	0.34	0.55	1.08	1.07
phenanthrene (PAH)	1.08	-0.34	1.57	0.96
pyrene (PAH)	0.71	-0.56	0.18	0.44
PCB 028 (PCB)	-0.08	-0.72	<	0.33
PCB 052 (PCB)	0.70	0.07	0.23	1.08
PCB 101 (PCB)	0.44	0.14	0.82	0.68
PCB 118 (PCB)	1.71	0.45	0.72	1.01
PCB 138 (PCB)	1.49	6.07 **	2.86 *	3.90 **
PCB 153 (PCB)	1.00	0.32	0.78	0.70
PCB 180 (PCB)	0.66	-0.05	0.06	0.96
aldrin (OCB)	#	#	< #	#
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	#	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	#	< #	< #
dieldrin (OCB)	#	#	#	< #
endrin (OCB)	< #	< #	< #	#

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
RIZA-IMLO (20) (cont.)				
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	#
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-0.10	#	#	0.47
hexachlorobutadiene (OCB)	#	< #	< #	#
isodrin (OCB)	< #	< #	< #	#
o,p`-DDD (OCB)	< #	#	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	#	-0.81	#	#
p,p`-DDE (OCB)	0.14	-0.49	< #	#
p,p`-DDT (OCB)	#	< #	#	#
pentachlorobenzene (OCB)	#	< #	< #	#
telodrin (OCB)	< #	< #	< #	#
ANALGEO (21)				
acenaphtene (PAH)	-0.11	-0.43	-1.05	-2.02 *
acenaphtylene (PAH)	0.95	0.63	0.59	0.03
anthracene (PAH)	1.95	1.55	0.11	0.14
benz(a)anthracene (PAH)	0.99	-0.01	-1.25	-1.09
benzo(a)pyrene (PAH)	1.24	0.22	-0.98	-0.41
benzo(b)fluoranthene (PAH)	0.77	0.16	-0.49	-0.64
benzo(ghi)perylene (PAH)	2.13 *	1.04	0.02	0.22
benzo(k)fluoranthene (PAH)	0.81	0.10	-0.63	-0.68
chrysene (PAH)	0.27	-0.68	-1.07	-1.19
dibenz(ah)anthracene (PAH)	1.48	0.89	0.56	0.65
fluoranthene (PAH)	1.52	0.78	-1.20	-1.52
fluorene (PAH)	0.84	0.53	-0.10	-2.28 *
indeno(1,2,3-cd)pyrene (PAH)	0.91	0.73	-0.09	0.16
phenanthrene (PAH)	2.57 *	2.18 *	-0.40	-2.22 *
pyrene (PAH)	1.46	0.61	-1.22	-1.18
PCB 028 (PCB)	1.10	-0.77	-0.09	3.24 **
PCB 052 (PCB)	3.14 **	-0.77	-0.29	3.51 **
PCB 101 (PCB)	-0.37	-0.28	-0.45	0.14
PCB 118 (PCB)	-0.19	-0.66	-0.42	-0.02
PCB 138 (PCB)	0.31	0.17	0.41	0.48
PCB 153 (PCB)	0.79	-0.20	1.30	0.81
PCB 180 (PCB)	-0.24	-0.74	-0.73	0.14
Organic carbon (OD)	-0.72	-1.47	-1.21	-0.88
EXTAQS (25)				
As (MET)	0.57	0.46	-0.12	-0.28
Cd (MET)	0.36	0.20	1.22	-0.08
Cr (MET)	-0.05	0.07	-0.31	-0.07
Cu (MET)	0.23	0.64	1.52	0.25
Hg (MET)	0.35	0.60	0.55	1.38
Ni (MET)	1.25	1.76	1.37	0.78
Pb (MET)	0.30	0.50	1.19	0.18
Zn (MET)	0.15	0.80	0.90	-0.51
IMRN (27)				
Mineral oil, GC (OD)	-0.50	0.00	-0.62	-0.29
EXACT (28)				
anthracene (PAH)	-0.07	0.36	0.03	0.98
benz(a)anthracene (PAH)	-0.58	-0.38	-0.61	-0.24
benzo(a)pyrene (PAH)	-0.68	-0.31	-0.18	-0.22
benzo(ghi)perylene (PAH)	-0.43	-0.28	0.30	0.20
benzo(k)fluoranthene (PAH)	0.53	0.80	0.67	0.74
chrysene (PAH)	-0.97	-0.62	-0.54	-0.39
fluoranthene (PAH)	0.33	0.57	-0.47	0.63
indeno(1,2,3-cd)pyrene (PAH)	-0.45	-0.62	-0.07	0.05
naphtalene (PAH)	-0.35	-0.50	-0.24	-0.08
phenanthrene (PAH)	-0.05	0.12	0.31	0.03
PCB 028 (PCB)	<	<	<	-3.19 < **
PCB 052 (PCB)	0.03	0.77	0.87	0.56 (cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
EXACT (28) (cont.)				
PCB 101 (PCB)	0.31	0.69	12.48 **	0.90
PCB 118 (PCB)	-0.56	-0.19	3.32 **	0.22
PCB 138 (PCB)	-0.40	-0.28	4.86 **	-0.05
PCB 153 (PCB)	0.02	-0.78	11.27 **	0.12
PCB 180 (PCB)	-0.34	0.10	7.50 **	0.14
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
chlordane (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	#
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	0.25	< #	< #	-1.58
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	#	-2.28 < *	< #	< #
p,p`-DDE (OCB)	1.47	-3.07 < **	< #	< #
p,p`-DDT (OCB)	#	< #	< #	< #
telodrin (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	7.38 **	< #	#	-2.62 < *
EOX (OD)	-1.30	1.93	-0.75	-2.01 *
Mineral oil, GC (OD)	1.10	0.81	0.70	0.78
ANATEK (29)				
acenaphtene (PAH)	2.68 *	3.03 **	4.31 **	2.53 *
acenaphtylene (PAH)	-0.16	-0.40	-0.79	-0.16
anthracene (PAH)	19.19 **	16.56 **	25.51 **	21.35 **
benz(a)anthracene (PAH)	5.47 **	9.05 **	4.76 **	3.67 **
benzo(a)pyrene (PAH)	5.34 **	7.61 **	7.30 **	5.75 **
benzo(ghi)perylene (PAH)	-0.47	-0.32	-0.41	2.74 *
chrysene (PAH)	3.65 **	3.84 **	2.07 *	2.72 *
dibenz(ah)anthracene (PAH)	0.13	0.27	0.62	4.46 **
fluoranthene (PAH)	2.00 *	1.52	3.42 **	3.25 **
fluorene (PAH)	3.42 **	2.78 *	3.77 **	3.90 **
indeno(1,2,3-cd)pyrene (PAH)	0.17	0.99	0.65	4.68 **
naphtalene (PAH)	2.19 *	1.68	1.70	1.97
phenanthrene (PAH)	3.53 **	3.61 **	3.44 **	1.25
pyrene (PAH)	2.51 *	2.61 *	3.82 **	3.68 **
PCB 028 (PCB)	1.35	2.40 *	9.05 **	4.56 **
PCB 052 (PCB)	3.98 **	25.31 **	17.28 **	9.06 **
PCB 101 (PCB)	0.74	-0.95	0.76	0.04
PCB 118 (PCB)	2.98 *	4.96 **	5.21 **	2.63 *
PCB 138 (PCB)	0.96	-0.66	1.33	1.27
PCB 153 (PCB)	-0.60	-1.08	-0.11	-0.76
PCB 180 (PCB)	0.55	-0.70	0.38	0.72
Mineral oil, GC (OD)	-1.16	-1.14	-1.43	-0.93
ELML (33)				
acenaphtene (PAH)	<	0.01	1.01	1.51
acenaphtylene (PAH)	<	<	0.51	0.34
anthracene (PAH)	1.06	0.82	0.96	3.12 **
benz(a)anthracene (PAH)	-0.58	-0.38	-0.20	-0.69
benzo(a)pyrene (PAH)	-0.20	-0.44	-0.48	-0.59
benzo(b)fluoranthene (PAH)	0.28	1.40	2.51 *	0.46
benzo(ghi)perylene (PAH)	-0.43	-0.57	-0.32	-1.00
benzo(k)fluoranthene (PAH)	-0.31	-0.65	0.02	-0.64
chrysene (PAH)	0.27	0.72	0.02	-0.82

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ELML (33) (cont.)				
dibenz(ah)anthracene (PAH)	<	-0.74	0.53	-0.57
fluoranthene (PAH)	0.15	0.48	1.24	0.19
fluorene (PAH)	0.59	0.59	1.11	-5.65 **
indeno(1,2,3-cd)pyrene (PAH)	-0.75	-0.13	0.04	-0.60
naphtalene (PAH)	1.07	0.86	0.96	0.73
phenanthrene (PAH)	0.66	0.12	-0.01	0.83
pyrene (PAH)	0.34	0.54	1.48	-0.80
PCB 028 (PCB)	<	<	<	-2.87 < *
PCB 052 (PCB)	0.40	-0.65	8.60 **	4.86 **
PCB 077 (PCB)	< #	< #	< #	#
PCB 101 (PCB)	-1.02	-1.44	<	-0.89
PCB 105 (PCB)	< #	< #	< #	-2.64 *
PCB 118 (PCB)	-1.75	<	<	-1.14
PCB 138 (PCB)	-0.11	-0.47	-0.13	0.11
PCB 153 (PCB)	-0.50	-0.72	-0.45	-0.23
PCB 169 (PCB)	#	#	#	#
PCB 180 (PCB)	-0.97	-0.27	-0.01	-0.71
Mineral oil, GC (OD)	1.20	1.32	2.88 *	1.19
As (MET)	-0.40	-1.27	-0.68	-1.00
Ba (MET)	-0.64	-0.71	-0.75	-0.79
Cd (MET)	-0.44	-2.07 *	-1.28	-1.10
Co (MET)	-3.29 **	-2.87 *	-2.60 *	-3.00 *
Cr (MET)	-3.16 **	-2.18 *	-2.31 *	-2.65 *
Cu (MET)	1.35	1.56	1.18	0.71
Hg (MET)	-1.60	-2.81 *	-0.88	-2.50 *
Mo (MET)	-0.95	-0.89	-1.19	-1.60
Ni (MET)	-3.11 **	-2.92 *	-1.94	-3.39 **
Pb (MET)	-1.92	-2.51 *	-1.08	-3.16 **
Zn (MET)	-0.64	-0.91	0.36	-0.68
WELLAB (35)				
acenaphtene (PAH)	0.28	0.29	-0.95	-0.58
acenaphtylene (PAH)	0.73	0.40	0.31	1.12
anthracene (PAH)	1.95	1.59	0.56	4.41 **
benz(a)anthracene (PAH)	1.00	0.76	-1.18	0.04
benzo(a)pyrene (PAH)	1.06	0.68	-0.47	0.71
benzo(b)fluoranthene (PAH)	0.29	0.24	-0.49	-0.19
benzo(ghi)perylene (PAH)	1.39	0.69	-0.20	-0.03
benzo(k)fluoranthene (PAH)	-0.20	0.67	-0.77	-0.62
chrysene (PAH)	0.11	0.39	-0.41	0.23
dibenz(ah)anthracene (PAH)	0.25	-0.10	-0.15	0.32
fluoranthene (PAH)	0.69	0.60	-0.44	-0.26
fluorene (PAH)	0.52	0.75	0.07	-0.64
indeno(1,2,3-cd)pyrene (PAH)	0.54	0.24	-0.05	0.28
naphtalene (PAH)	0.53	0.34	0.00	-0.06
phenanthrene (PAH)	1.29	1.73	-0.61	-0.53
pyrene (PAH)	0.47	0.37	-0.57	-0.11
PCB 028 (PCB)	-0.22	-0.12	<	0.48
PCB 052 (PCB)	-0.41	<	<	-0.78
PCB 077 (PCB)	< #	< #	< #	< #
PCB 101 (PCB)	-0.07	-0.20	<	-0.11
PCB 105 (PCB)	< #	< #	< #	-1.43
PCB 118 (PCB)	-0.07	0.49	<	-0.67
PCB 126 (PCB)	< #	< #	< #	< #
PCB 128 (PCB)	< #	< #	< #	#
PCB 138 (PCB)	-0.92	-0.05	-1.09	-1.27
PCB 153 (PCB)	-0.57	-0.12	-0.42	-1.20
PCB 169 (PCB)	< #	< #	< #	< #
PCB 180 (PCB)	-0.52	2.03 *	0.23	0.08
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
WELLAB (35) (cont.)				
dieldrin (OCB)	< #	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-0.30	< #	< #	-0.58
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	<	< #	< #
p,p`-DDE (OCB)	<	<	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Total (OD)	-1.32	< #	#	-1.59
As (MET)	2.24 *	0.72	-0.06	1.31
Cd (MET)	-0.09	2.35 *	0.19	-0.14
Cr (MET)	0.18	0.18	0.04	0.39
Cu (MET)	0.41	-0.79	0.15	0.85
Hg (MET)	-1.81	-1.10	6.57 **	-0.96
Ni (MET)	0.78	0.60	-0.10	0.62
Pb (MET)	1.20	0.63	-0.67	0.37
Zn (MET)	1.17	-0.53	-0.38	0.17
ECOSPACE (36)				
EOX (OD)	<	<	<	<
1,2,3,4,6,7,8 Cl7DD (DD)	#	#	#	#
1,2,3,4,7,8 Cl6DD (DD)	< #	< #	< #	#
1,2,3,6,7,8 Cl6DD (DD)	< #	< #	< #	#
1,2,3,7,8 Cl5DD (DD)	< #	< #	< #	#
1,2,3,7,8,9 Cl6DD (DD)	< #	< #	< #	#
2,3,7,8 Cl4DD (DD)	#	#	< #	#
Cl8DD (DD)	#	#	#	#
1,2,3,4,6,7,8 Cl7DF (DF)	#	#	#	#
1,2,3,4,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,4,7,8,9 Cl7DF (DF)	#	#	< #	#
1,2,3,6,7,8 Cl6DF (DF)	#	#	< #	#
1,2,3,7,8 Cl5DF (DF)	#	#	< #	#
1,2,3,7,8,9 Cl6DF (DF)	< #	< #	< #	#
2,3,4,6,7,8 Cl6DF (DF)	#	< #	< #	#
2,3,4,7,8 Cl5DF (DF)	#	#	< #	#
2,3,7,8 Cl4DF (DF)	#	#	#	#
Cl8DF (DF)	#	#	#	#
US (39)				
acenaphtene (PAH)	0.76	0.63	0.47	1.19
acenaphtylene (PAH)	1.67	1.37	1.06	0.99
anthracene (PAH)	0.50	0.20	0.10	1.57
benz(a)anthracene (PAH)	0.38	0.94	0.24	0.60
benzo(a)pyrene (PAH)	1.38	1.78	1.17	1.49
benzo(b)fluoranthene (PAH)	-0.19	0.24	0.14	0.34
benzo(ghi)perylene (PAH)	2.37 *	2.59 *	2.44 *	1.68
benzo(k)fluoranthene (PAH)	1.42	1.61	-0.10	0.65
chrysene (PAH)	0.22	1.99	1.60	0.22
dibenz(ah)anthracene (PAH)	2.44 *	3.00 *	2.87 *	3.59 **
fluoranthene (PAH)	0.33	0.92	0.36	0.33
fluorene (PAH)	1.59	0.92	0.34	2.36 *
indeno(1,2,3-cd)pyrene (PAH)	0.85	1.93	1.37	1.75
naphtalene (PAH)	2.91 *	2.39 *	1.66	1.31
phenanthrene (PAH)	0.31	-0.08	0.09	2.20 *
pyrene (PAH)	0.65	1.39	0.62	0.53
PCB 028 (PCB)	0.95	0.86	1.02	2.49 *
PCB 052 (PCB)	0.31	-0.02	-0.03	-0.04
PCB 101 (PCB)	-0.12	0.63	1.82	-0.15
PCB 118 (PCB)	-0.16	-0.23	0.96	-0.34
PCB 138 (PCB)	2.59 *	0.55	-0.88	-0.45
PCB 153 (PCB)	-0.13	0.85	-0.24	-0.67
PCB 180 (PCB)	0.59	2.88 *	0.73	0.36

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
US (39) (cont.)				
aldrin (OCB)	#	#	#	#
alpha-endosulfan (OCB)	#	#	#	#
alpha-HCH (OCB)	#	#	#	#
beta-HCH (OCB)	#	#	#	#
cis-chlordane (OCB)	#	#	#	#
delta-HCH (OCB)	#	#	#	#
dieldrin (OCB)	#	#	#	#
endosulfan sulfate (OCB)	#	#	#	#
endrin (OCB)	#	#	#	#
gamma-HCH (OCB)	#	#	#	#
heptachlor (OCB)	#	#	#	#
heptachlor epoxide (OCB)	#	#	#	#
hexachlorobenzene (OCB)	0.19	#	#	0.58
hexachlorobutadiene (OCB)	#	#	#	#
isodrin (OCB)	#	#	#	#
o,p`-DDD (OCB)	#	#	#	#
o,p`-DDE (OCB)	#	#	#	#
o,p`-DDT (OCB)	#	#	#	#
p,p`-DDD (OCB)	#	0.85	#	#
p,p`-DDE (OCB)	0.64	0.82	#	#
p,p`-DDT (OCB)	#	#	#	#
pentachlorobenzene (OCB)	#	#	#	#
trans-chlordane (OCB)	#	#	#	#
EOX (OD)	-1.06	-0.24	0.35	-0.65
Mineral oil, GC (OD)	0.37	0.42	0.17	0.07
As (MET)	-0.35	1.15	0.44	0.98
Ba (MET)	-1.87	-1.41	-2.07 *	-1.62
Cd (MET)	0.84	2.89 *	-0.45	0.86
Co (MET)	0.67	1.46	-0.36	2.04 *
Cr (MET)	-1.65	-0.69	-2.25 *	-1.32
Cu (MET)	0.57	-0.20	-0.52	0.71
Hg (MET)	-0.15	-0.01	0.41	-0.17
Mo (MET)	-0.96	-0.78	-1.46	4.25 **
Ni (MET)	-0.38	-0.42	-0.82	-0.42
Pb (MET)	0.48	0.69	0.68	1.64
Zn (MET)	-0.25	0.01	0.27	0.06
JYUIER (41)				
PCB 028 (PCB)	0.03	-0.77	<	0.08
PCB 052 (PCB)	0.80	-0.08	<	0.15
PCB 101 (PCB)	0.36	-0.13	-0.97	0.26
PCB 105 (PCB)	#	< #	< #	-3.02 **
PCB 118 (PCB)	0.72	-0.63	-0.94	-0.10
PCB 128 (PCB)	#	#	#	#
PCB 138 (PCB)	0.21	-0.15	-0.80	0.28
PCB 153 (PCB)	1.03	-0.24	-0.68	-0.16
PCB 156 (PCB)	#	#	< #	#
PCB 180 (PCB)	-0.09	-0.55	-0.69	-0.42
alpha-HCH (OCB)	< #	#	< #	< #
gamma-HCH (OCB)	< #	#	< #	< #
hexachlorobenzene (OCB)	0.72	#	#	0.79
p,p`-DDD (OCB)	#	-0.76	#	#
p,p`-DDE (OCB)	-0.43	-0.57	< #	#
p,p`-DDT (OCB)	< #	< #	< #	< #
Mineral oil, GC (OD)	0.94	1.27	0.43	-0.18
As (MET)	0.71	0.70	0.58	0.07
Ba (MET)	0.90	1.59	1.01	1.38
Cd (MET)	-0.48	-0.33	-0.21	-0.74
Co (MET)	-0.10	-0.44	-0.17	-0.50
Cr (MET)	1.56	1.27	0.94	0.97
Cu (MET)	-0.36	-0.71	-2.22 *	-0.49
Hg (MET)	-0.88	0.55	-0.13	0.47
Mo (MET)	0.83	1.17	0.82	0.69
Ni (MET)	-0.01	-0.06	-0.29	-0.43
Pb (MET)	-0.53	-0.81	-1.47	-0.88
Zn (MET)	-1.62	-0.91	-1.92	-0.31

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
JYUIER (41) (cont.)				
1,2,3,4,6,7,8 Cl7DD (DD)	#	< #	< #	#
1,2,3,4,7,8 Cl6DD (DD)	< #	< #	< #	< #
1,2,3,6,7,8 Cl6DD (DD)	< #	< #	< #	< #
1,2,3,7,8 Cl5DD (DD)	< #	< #	< #	< #
1,2,3,7,8,9 Cl6DD (DD)	< #	< #	< #	< #
2,3,7,8 Cl4DD (DD)	< #	< #	< #	< #
Cl8DD (DD)	#	#	#	#
1,2,3,4,7,8 Cl6DF (DF)	< #	< #	< #	< #
1,2,3,4,7,8,9 Cl7DF (DF)	#	< #	< #	#
1,2,3,6,7,8 Cl6DF (DF)	< #	< #	< #	#
1,2,3,7,8 Cl5DF (DF)	< #	< #	< #	< #
1,2,3,7,8,9 Cl6DF (DF)	< #	< #	< #	< #
2,3,4,6,7,8 Cl6DF (DF)	< #	< #	< #	#
2,3,4,7,8 Cl5DF (DF)	< #	< #	< #	< #
2,3,7,8 Cl4DF (DF)	< #	< #	< #	#
Cl8DF (DF)	#	#	#	#
LAS (48)				
acenaphtene (PAH)	<	<	0.74	-0.05
acenaphtylene (PAH)	<	<	<	-0.47
anthracene (PAH)	1.58	1.44	0.97	0.25
benz(a)anthracene (PAH)	1.68	1.28	0.74	0.73
benzo(a)pyrene (PAH)	1.55	0.71	-0.07	0.35
benzo(b)fluoranthene (PAH)	-0.03	-0.34	-0.12	-0.20
benzo(ghi)perylene (PAH)	<	4.43 **	3.15 **	2.19 *
benzo(k)fluoranthene (PAH)	0.72	0.49	1.05	0.40
chrysene (PAH)	<	-0.38	-0.09	-1.23
dibenz(ah)anthracene (PAH)	<	<	2.88 *	5.22 **
fluoranthene (PAH)	0.49	0.70	0.24	0.20
fluorene (PAH)	0.46	0.66	0.72	-1.00
indeno(1,2,3-cd)pyrene (PAH)	1.21	0.13	0.67	0.99
naphtalene (PAH)	2.60 *	1.77	2.66 *	1.75
phenanthrene (PAH)	2.13 *	1.78	2.53 *	0.55
pyrene (PAH)	0.99	0.91	0.61	1.55
PCB 028 (PCB)	0.82	0.38	-0.46	1.92
PCB 052 (PCB)	0.44	0.03	-0.58	0.96
PCB 101 (PCB)	0.38	0.27	-0.87	1.13
PCB 105 (PCB)	#	#	< #	0.35
PCB 118 (PCB)	0.57	-0.17	-0.56	1.01
PCB 128 (PCB)	#	#	#	#
PCB 138 (PCB)	0.14	0.20	-0.65	1.03
PCB 153 (PCB)	0.82	0.32	-0.42	1.71
PCB 180 (PCB)	0.47	-0.07	-0.27	2.37 *
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	#	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	#	< #	< #
delta-HCH (OCB)	< #	#	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	#	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-1.64	#	< #	-2.67 *
o,p`-DDD (OCB)	#	#	< #	#
o,p`-DDE (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	#	0.44	< #	#
p,p`-DDE (OCB)	-3.44 **	-3.22 **	< #	#
p,p`-DDT (OCB)	< #	< #	< #	< #
1,2,3,4,6,7,8 Cl7DD (DD)	< #	< #	< #	#
1,2,3,4,7,8 Cl6DD (DD)	< #	< #	< #	#
1,2,3,6,7,8 Cl6DD (DD)	< #	< #	< #	#
1,2,3,7,8 Cl5DD (DD)	< #	< #	< #	#
1,2,3,7,8,9 Cl6DD (DD)	< #	< #	< #	#
2,3,7,8 Cl4DD (DD)	< #	#	< #	< #
Cl8DD (DD)	#	< #	< #	#

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
LAS (48) (cont.)				
1,2,3,4,6,7,8 Cl7DF (DF)	#	#	< #	#
1,2,3,4,7,8 Cl6DF (DF)	< #	#	< #	#
1,2,3,4,7,8,9 Cl7DF (DF)	< #	< #	< #	#
1,2,3,6,7,8 Cl6DF (DF)	< #	< #	< #	#
1,2,3,7,8 Cl5DF (DF)	< #	< #	< #	#
1,2,3,7,8,9 Cl6DF (DF)	< #	< #	< #	#
2,3,4,6,7,8 Cl6DF (DF)	< #	< #	< #	#
2,3,4,7,8 Cl5DF (DF)	< #	#	< #	#
2,3,7,8 Cl4DF (DF)	< #	< #	< #	#
Cl8DF (DF)	#	#	< #	#
CHEMLABSIT (52)				
acenaphtene (PAH)	0.13	-0.93	0.02	-0.96
acenaphtylene (PAH)	<	<	<	-1.37
anthracene (PAH)	-0.73	-1.18	-0.50	-0.77
benz(a)anthracene (PAH)	-0.46	-1.05	-0.01	-0.64
benzo(a)pyrene (PAH)	0.50	-0.04	0.14	-0.27
benzo(b)fluoranthene (PAH)	0.95	0.83	0.91	-0.13
benzo(ghi)perylene (PAH)	-0.20	-0.13	0.43	-0.30
benzo(k)fluoranthene (PAH)	0.00	0.20	0.93	-0.14
chrysene (PAH)	-0.71	-1.43	-0.37	-0.74
dibenz(ah)anthracene (PAH)	-0.84	-0.91	-0.61	-1.45
fluoranthene (PAH)	0.40	0.21	0.36	0.08
fluorene (PAH)	-0.56	-0.92	-0.39	-0.76
indeno(1,2,3-cd)pyrene (PAH)	1.42	1.97	1.69	0.32
naphtalene (PAH)	-0.39	-0.84	-0.80	-0.84
phenanthrene (PAH)	-0.31	-0.86	-0.53	-0.73
pyrene (PAH)	-0.55	-1.06	0.38	-1.27
Mineral oil, GC (OD)	-0.56	-0.32	0.70	-0.15
ATM (54)				
anthracene (PAH)	-0.07	-0.58	-0.27	-0.80
benz(a)anthracene (PAH)	1.52	1.51	0.95	0.83
benzo(a)pyrene (PAH)	1.48	0.80	2.29 *	1.25
benzo(ghi)perylene (PAH)	0.03	0.29	1.90	0.76
benzo(k)fluoranthene (PAH)	0.81	0.18	0.49	0.82
chrysene (PAH)	10.40 **	13.26 **	7.06 **	8.19 **
fluoranthene (PAH)	0.71	0.17	0.55	1.07
indeno(1,2,3-cd)pyrene (PAH)	0.60	0.49	0.47	1.18
naphtalene (PAH)	0.01	-0.50	-0.65	-0.25
phenanthrene (PAH)	0.48	0.32	0.63	0.93
CN - Total (OD)	1.81	#	#	1.25
EOX (OD)	1.72	2.73 *	1.02	4.47 **
Mineral oil, GC (OD)	2.52 *	-0.88	5.87 **	4.07 **
As (MET)	5.56 **	5.42 **	10.19 **	3.14 **
Ba (MET)	-2.98 *	0.94	1.65	1.12
Cd (MET)	15.97 **	22.50 **	22.33 **	1.96
Co (MET)	0.58	0.34	1.01	0.51
Cr (MET)	0.69	0.58	0.62	0.63
Cu (MET)	4.62 **	2.52 *	2.84 *	2.96 *
Hg (MET)	-2.13 *	-8.93 **	-5.00 < **	-4.83 **
Mo (MET)	0.48	-0.68	0.12	0.49
Ni (MET)	0.02	-0.83	-0.76	-1.02
Pb (MET)	-0.82	-0.25	0.29	-0.35
Zn (MET)	0.97	0.93	0.85	-0.92
ANAPBO (55)				
Mineral oil, GC (OD)	0.60	0.71	0.62	0.35
As (MET)	-1.55	-1.52	-0.83	-3.14 **
Ba (MET)	0.57	0.79	0.23	0.82
Cd (MET)	-0.44	-1.65	-2.32 *	0.56
Co (MET)	0.71	0.62	1.00	0.46
Cr (MET)	1.08	0.93	0.61	1.15
Cu (MET)	-0.04	0.53	1.03	0.83
Hg (MET)	-0.55	-2.01 *	-0.72	-0.76
Mo (MET)	0.99	0.51	1.17	-0.03

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ANAPBO (55) (cont.)				
Ni (MET)	0.84	0.75	0.25	0.52
Pb (MET)	-0.38	0.05	-0.18	-0.16
Zn (MET)	0.66	1.25	0.60	0.60
32A (56)				
acenaphtene (PAH)	0.76	1.25	1.01	1.21
acenaphtylene (PAH)	5.05 **	4.58 **	3.79 **	3.48 **
anthracene (PAH)	1.63	1.60	1.58	4.53 **
benz(a)anthracene (PAH)	0.76	0.57	-0.17	0.11
benzo(a)pyrene (PAH)	0.52	0.06	-0.18	0.19
benzo(b)fluoranthene (PAH)	1.38	1.40	1.26	1.45
benzo(ghi)perylene (PAH)	0.50	0.00	-0.19	0.23
benzo(k)fluoranthene (PAH)	-0.31	-0.44	-0.25	-0.29
chrysene (PAH)	1.01	0.79	0.35	0.75
dibenz(ah)anthracene (PAH)	0.18	-0.06	-0.22	-0.14
fluoranthene (PAH)	0.71	0.97	0.32	0.51
fluorene (PAH)	1.09	1.58	1.30	1.02
indeno(1,2,3-cd)pyrene (PAH)	-0.30	-0.50	-0.55	-0.28
naphtalene (PAH)	1.61	1.46	1.14	1.22
phenanthrene (PAH)	0.84	0.52	0.50	0.40
pyrene (PAH)	0.86	1.13	0.38	0.69
HILL (58)				
acenaphtene (PAH)	-1.28	-1.79	-1.53	0.40
acenaphtylene (PAH)	0.34	0.11	0.51	0.39
anthracene (PAH)	-0.90	-1.12	-1.02	-0.67
benz(a)anthracene (PAH)	-2.21 *	-2.47 *	1.50	-1.31
benzo(a)pyrene (PAH)	-2.56 *	-2.42 *	1.34	-1.50
benzo(ghi)perylene (PAH)	-1.53	-1.58	-0.77	-0.64
benzo(k)fluoranthene (PAH)	-2.29 *	-2.72 *	2.72 *	-1.48
chrysene (PAH)	-1.96	-2.32 *	0.77	-1.70
dibenz(ah)anthracene (PAH)	-1.23	-0.95	-0.38	-0.46
fluoranthene (PAH)	-2.28 *	-2.14 *	2.45 *	0.63
fluorene (PAH)	-1.36	-1.41	-1.51	0.33
indeno(1,2,3-cd)pyrene (PAH)	-1.88	-2.10 *	-1.16	-1.25
naphtalene (PAH)	-0.71	-0.66	-0.19	-0.37
phenanthrene (PAH)	-2.01 *	-2.68 *	-2.59 *	0.95
pyrene (PAH)	-2.16 *	-2.46 *	1.72	0.09
PCB 028 (PCB)	-0.57	-0.68	<	-0.01
PCB 031 (PCB)	#	#	< #	#
PCB 052 (PCB)	-0.55	0.77	<	0.48
PCB 077 (PCB)	< #	< #	< #	#
PCB 081 (PCB)	< #	< #	< #	< #
PCB 101 (PCB)	-3.21 **	-3.18 < **	<	-2.64 *
PCB 105 (PCB)	#	< #	< #	-0.11
PCB 114 (PCB)	< #	< #	< #	< #
PCB 118 (PCB)	-0.19	-0.19	<	0.92
PCB 123 (PCB)	#	< #	< #	#
PCB 126 (PCB)	< #	< #	< #	< #
PCB 138 (PCB)	0.81	1.12	0.28	1.89
PCB 149 (PCB)	#	#	#	#
PCB 153 (PCB)	0.02	0.14	-0.81	0.81
PCB 156 (PCB)	#	< #	< #	#
PCB 157 (PCB)	< #	#	#	#
PCB 167 (PCB)	< #	< #	< #	#
PCB 169 (PCB)	< #	< #	< #	< #
PCB 180 (PCB)	0.24	0.57	-0.19	1.57
PCB 189 (PCB)	< #	< #	< #	#
As (MET)	0.03	0.65	0.58	1.02
Ba (MET)	-0.40	-0.54	-0.35	-0.48
Cd (MET)	2.30 *	1.33	2.26 *	1.80
Co (MET)	0.67	-0.18	0.07	1.36
Cr (MET)	-1.22	-1.44	-1.60	-0.87
Cu (MET)	0.59	0.83	0.29	0.14
Hg (MET)	2.74 *	2.25 *	2.45 *	1.61
Mo (MET)	-0.06	0.20	0.12	0.15

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
HILL (58) (cont.)				
Ni (MET)	0.59	-0.37	-0.76	0.74
Pb (MET)	1.57	1.38	1.37	1.81
Zn (MET)	1.88	2.04 *	1.72	1.72
ARCHIMEDES (59)				
acenaphtene (PAH)	-	-	-1.57	-0.55
acenaphtylene (PAH)	-	-	<	-0.98
anthracene (PAH)	-0.21	0.22	-0.91	-0.42
benz(a)anthracene (PAH)	-0.10	-0.13	0.41	-0.22
benzo(a)pyrene (PAH)	-0.45	0.16	-0.69	-0.59
benzo(b)fluoranthene (PAH)	-	-	1.52	1.22
benzo(ghi)perylene (PAH)	0.06	0.73	-0.98	-0.97
benzo(k)fluoranthene (PAH)	0.09	-0.43	-1.18	-1.25
chrysene (PAH)	0.30	0.18	-0.59	-0.57
dibenz(ah)anthracene (PAH)	-	-	-1.42	-1.32
fluoranthene (PAH)	-0.16	-0.51	-0.34	-0.92
fluorene (PAH)	-	-	-1.37	-0.70
indeno(1,2,3-cd)pyrene (PAH)	0.79	0.82	-0.90	-0.97
naphtalene (PAH)	-0.35	-0.35	-0.47	-0.38
phenanthrene (PAH)	-0.62	-0.40	-0.82	-0.20
pyrene (PAH)	-	-	-0.32	-0.76
PCB 028 (PCB)	1.69	1.63	<	<
PCB 052 (PCB)	3.29 **	<	<	<
PCB 101 (PCB)	2.80 *	2.82 *	<	<
PCB 118 (PCB)	9.96 **	1.84	<	<
PCB 138 (PCB)	2.56 *	2.01 *	<	<
PCB 153 (PCB)	2.23 *	2.22 *	<	<
PCB 180 (PCB)	5.49 **	2.99 *	<	<
1,2,3 trichlorobenzene (OCB)	< #	< #	< #	< #
1,2,3,4 tetrachlorobenzene (OCB)	#	< #	< #	< #
1,2,4 trichlorobenzene (OCB)	#	#	< #	< #
1,3,5 trichlorobenzene (OCB)	#	#	< #	< #
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	#	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	#	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	#	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	0.91	< #	< #	-0.93
hexachlorobutadiene (OCB)	#	< #	< #	< #
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	#	< #	< #	< #
p,p`-DDE (OCB)	29.24 **	-4.01 < **	< #	< #
p,p`-DDT (OCB)	#	< #	< #	< #
pentachlorobenzene (OCB)	#	< #	< #	< #
Sum tetrachlorobenzenes (OCB)	#	#	< #	< #
Sum trichlorobenzenes (OCB)	#	#	< #	< #
telodrin (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Free (OD)	< #	< #	-	-
CN - Total (OD)	-0.54	< #	-	-
EOX (OD)	0.24	-0.50	-	-
Mineral oil, GC (OD)	0.10	-0.16	-1.24	-0.56
GGM (60)				
acenaphtene (PAH)	<	-0.41	0.61	-0.88
acenaphtylene (PAH)	<	<	-0.17	0.03
anthracene (PAH)	-0.22	-0.28	-0.09	0.25
benz(a)anthracene (PAH)	-0.27	-0.71	0.61	0.45

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776	
GGM (60) (cont.)					
benzo(a)pyrene (PAH)	-0.56	-0.91	0.24	0.09	
benzo(b)fluoranthene (PAH)	0.19	0.12	0.45	0.86	
benzo(ghi)perylene (PAH)	0.11	0.18	0.60	0.71	
benzo(k)fluoranthene (PAH)	-0.53	-0.67	-0.14	-0.21	
chrysene (PAH)	0.91	0.91	0.38	1.11	
dibenz(ah)anthracene (PAH)	0.75	1.11	0.91	0.39	
fluoranthene (PAH)	-0.27	-0.38	0.60	0.11	
fluorene (PAH)	0.71	0.33	0.53	1.00	
indeno(1,2,3-cd)pyrene (PAH)	-0.71	-0.80	-0.24	0.22	
naphtalene (PAH)	0.01	-0.10	-0.61	-0.52	
phenanthrene (PAH)	-0.90	-1.19	0.36	0.49	
pyrene (PAH)	-0.38	-0.47	1.04	0.89	
PCB 028 (PCB)	1.55	0.82	<	3.95	**
PCB 052 (PCB)	-0.43	-0.15	<	0.05	
PCB 101 (PCB)	0.11	-0.33	<	0.64	
PCB 118 (PCB)	0.25	-0.26	<	1.03	
PCB 138 (PCB)	0.95	0.43	0.19	1.84	
PCB 153 (PCB)	-0.97	-0.01	-0.25	0.60	
PCB 180 (PCB)	0.00	-0.12	0.29	0.76	
aldrin (OCB)	#	< #	< #	< #	
alpha-endosulfan (OCB)	< #	< #	< #	< #	
alpha-HCH (OCB)	< #	< #	< #	< #	
beta-endosulfan (OCB)	< #	< #	< #	< #	
beta-HCH (OCB)	< #	< #	< #	< #	
chlordane (OCB)	< #	< #	< #	< #	
cis-chlordane (OCB)	< #	< #	< #	< #	
delta-HCH (OCB)	< #	< #	< #	< #	
dieldrin (OCB)	< #	< #	< #	< #	
endosulfan (OCB)	< #	< #	< #	< #	
endosulfan sulfate (OCB)	< #	< #	< #	< #	
endrin (OCB)	< #	< #	< #	< #	
gamma-HCH (OCB)	< #	< #	< #	< #	
heptachlor (OCB)	< #	< #	< #	< #	
heptachlor epoxide (OCB)	< #	< #	< #	< #	
hexachlorobenzene (OCB)	0.74	< #	< #	3.83	**
hexachlorobutadiene (OCB)	< #	< #	< #	#	
isodrin (OCB)	< #	< #	< #	< #	
o,p`-DDD (OCB)	< #	< #	< #	< #	
o,p`-DDE (OCB)	< #	< #	< #	< #	
o,p`-DDT (OCB)	< #	< #	< #	< #	
p,p`-DDD (OCB)	< #	<	< #	< #	
p,p`-DDE (OCB)	<	<	< #	< #	
p,p`-DDT (OCB)	< #	< #	< #	< #	
pentachlorobenzene (OCB)	< #	< #	< #	#	
telodrin (OCB)	< #	< #	< #	< #	
trans-chlordane (OCB)	< #	< #	< #	< #	
Mineral oil, GC (OD)	-0.85	-0.67	-1.11	-0.99	
Particles < 2 µm (OD)	#	#	#	#	
As (MET)	-0.12	-0.68	-0.84	-0.13	
Ba (MET)	-0.22	-0.51	-0.92	-0.58	
Cd (MET)	-0.17	-0.30	-0.35	-0.10	
Co (MET)	-0.98	1.13	-0.86	0.14	
Cr (MET)	-0.24	-0.06	-0.83	-0.07	
Cu (MET)	-1.99	-1.00	-0.14	-1.42	
Hg (MET)	0.26	0.08	0.77	-0.06	
Mo (MET)	<	<	<	1.44	
Ni (MET)	-0.86	-0.92	-0.77	-0.52	
Pb (MET)	0.43	0.09	0.11	0.47	
Zn (MET)	-1.78	-0.85	-0.94	-1.73	
ULS (61)					
acenaphtene (PAH)	-1.05	0.07	0.63	4.97	**
acenaphtylene (PAH)	0.44	1.49	0.00	0.17	
anthracene (PAH)	-0.90	0.54	0.82	1.60	
benz(a)anthracene (PAH)	-1.48	-0.22	0.30	0.98	
benzo(a)pyrene (PAH)	-0.75	0.66	0.50	2.23	*

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ULS (61) (cont.)				
benzo(b)fluoranthene (PAH)	-0.40	1.91	0.23	0.21
benzo(ghi)perylene (PAH)	-0.92	0.82	0.59	0.38
benzo(k)fluoranthene (PAH)	-0.92	-0.25	-0.03	-0.67
chrysene (PAH)	-0.78	0.39	0.24	-0.01
dibenz(ah)anthracene (PAH)	-0.33	0.79	0.72	-0.31
fluoranthene (PAH)	-1.56	0.19	0.16	0.64
fluorene (PAH)	-0.46	0.07	0.82	5.47 **
indeno(1,2,3-cd)pyrene (PAH)	-0.69	0.67	0.31	0.29
naphtalene (PAH)	-0.55	0.31	0.17	0.90
phenanthrene (PAH)	-0.65	0.14	0.96	0.01
pyrene (PAH)	-1.30	-0.01	0.23	1.35
PCB 028 (PCB)	-0.99	0.89	<	-0.07
PCB 052 (PCB)	-2.08 *	0.46	<	-0.17
PCB 101 (PCB)	-1.41	1.73	<	-0.11
PCB 118 (PCB)	-1.69	2.71 *	<	0.40
PCB 138 (PCB)	-0.26	0.82	0.08	0.98
PCB 153 (PCB)	-0.85	-0.19	0.04	0.57
PCB 180 (PCB)	-1.04	0.65	0.14	0.09
Mineral oil, GC (OD)	-0.61	-3.34 **	-0.46	-0.50
1,2,3,4,6,7,8 Cl7DD (DD)	#	#	#	#
1,2,3,4,7,8 Cl6DD (DD)	#	< #	< #	#
1,2,3,6,7,8 Cl6DD (DD)	#	< #	#	#
1,2,3,7,8 Cl5DD (DD)	#	#	#	#
1,2,3,7,8,9 Cl6DD (DD)	#	< #	#	#
2,3,7,8 Cl4DD (DD)	#	#	#	#
Cl8DD (DD)	#	#	#	#
1,2,3,4,6,7,8 Cl7DF (DF)	#	#	#	#
1,2,3,4,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,4,7,8,9 Cl7DF (DF)	#	#	#	#
1,2,3,6,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,7,8 Cl5DF (DF)	#	#	#	#
1,2,3,7,8,9 Cl6DF (DF)	#	< #	< #	#
2,3,4,6,7,8 Cl6DF (DF)	#	#	#	#
2,3,4,7,8 Cl5DF (DF)	#	#	#	#
2,3,7,8 Cl4DF (DF)	#	#	#	#
Cl8DF (DF)	#	#	#	#
SGSECOPD (62)				
As (MET)	0.57	0.27	0.58	0.61
Ba (MET)	0.40	-0.01	0.37	0.05
Cd (MET)	1.42	0.34	0.49	1.10
Co (MET)	0.50	0.25	1.17	0.68
Cr (MET)	0.14	0.11	0.21	0.13
Cu (MET)	1.71	1.56	-0.14	0.71
Hg (MET)	0.12	0.12	-1.03	0.36
Ni (MET)	1.17	1.02	0.92	0.74
Pb (MET)	1.66	1.00	1.37	0.99
Zn (MET)	1.48	0.73	0.75	1.14
COMALAB (67)				
acenaphtene (PAH)	<	<	0.50	-1.76
acenaphtylene (PAH)	<	<	0.06	-0.48
anthracene (PAH)	<	-0.65	-0.01	0.21
benz(a)anthracene (PAH)	-0.39	-0.15	-0.04	-0.75
benzo(a)pyrene (PAH)	-0.20	0.47	0.12	-0.53
benzo(b)fluoranthene (PAH)	-0.31	-0.34	-0.03	-0.69
benzo(ghi)perylene (PAH)	-0.67	-0.50	0.24	-0.26
benzo(k)fluoranthene (PAH)	-0.59	-0.31	0.07	-0.84
chrysene (PAH)	-0.71	-0.71	-0.13	-0.36
dibenz(ah)anthracene (PAH)	<	0.89	0.19	-0.11
fluoranthene (PAH)	-0.73	-0.87	0.28	-1.01
fluorene (PAH)	<	<	0.53	-2.72 *
indeno(1,2,3-cd)pyrene (PAH)	-0.36	-0.50	0.11	-0.73
naphtalene (PAH)	<	-0.44	-0.18	-1.09
phenanthrene (PAH)	-0.95	-0.82	0.95	-2.22 *
pyrene (PAH)	-0.87	-0.09	0.52	-0.58

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
QSANAL (76)				
acenaphtene (PAH)	0.21	0.75	-0.41	-0.20
acenaphtylene (PAH)	0.44	0.69	0.31	0.69
anthracene (PAH)	-0.50	0.11	-1.38	0.64
benz(a)anthracene (PAH)	-1.34	-1.54	-0.94	-1.00
benzo(a)pyrene (PAH)	-1.47	-1.60	-1.61	-0.88
benzo(b)fluoranthene (PAH)	-0.91	-0.85	-0.81	-0.70
benzo(ghi)perylene (PAH)	-1.09	-0.83	-0.37	0.17
benzo(k)fluoranthene (PAH)	-1.56	0.33	0.77	-0.09
chrysene (PAH)	-0.57	-0.40	-0.36	-0.51
dibenz(ah)anthracene (PAH)	-1.18	-0.61	-1.21	-0.76
fluoranthene (PAH)	0.15	-0.95	-0.86	-0.86
fluorene (PAH)	-0.36	-0.06	-1.03	-0.67
indeno(1,2,3-cd)pyrene (PAH)	-0.87	-1.04	-0.36	0.09
naphtalene (PAH)	1.96	1.90	1.52	1.25
phenanthrene (PAH)	0.98	1.18	-0.09	-0.73
pyrene (PAH)	-0.46	-0.99	-1.07	-1.11
PCB 028 (PCB)	<	2.09 *	<	7.42 **
PCB 052 (PCB)	2.31 *	10.45 **	6.80 **	2.98 *
PCB 101 (PCB)	1.00	2.63 *	6.27 **	2.43 *
PCB 118 (PCB)	3.08 **	2.46 *	6.19 **	2.32 *
PCB 138 (PCB)	3.27 **	6.28 **	5.53 **	4.01 **
PCB 153 (PCB)	2.87 *	5.62 **	7.75 **	3.94 **
PCB 180 (PCB)	1.61	3.83 **	3.03 **	2.28 *
Mineral oil, GC (OD)	0.08	-0.19	-0.46	-0.82
Organic carbon (OD)	-0.53	-0.23	0.45	-0.48
BOREALIS (78)				
acenaphtene (PAH)	-0.18	0.07	-0.41	-0.42
acenaphtylene (PAH)	0.49	0.91	0.50	-0.13
anthracene (PAH)	1.12	1.71	1.19	59.94 **
benz(a)anthracene (PAH)	1.12	2.08 *	0.27	0.94
benzo(a)pyrene (PAH)	1.24	2.43 *	0.67	5.34 **
benzo(b)fluoranthene (PAH)	0.80	1.09	0.69	4.59 **
benzo(ghi)perylene (PAH)	1.36	2.45 *	0.34	0.92
benzo(k)fluoranthene (PAH)	-0.06	1.59	-0.94	4.58 **
chrysene (PAH)	-0.28	-0.19	-1.29	-1.55
dibenz(ah)anthracene (PAH)	-0.31	0.21	-0.71	0.57
fluoranthene (PAH)	1.17	3.04 **	0.63	1.26
fluorene (PAH)	-0.76	-0.82	-0.81	-1.58
indeno(1,2,3-cd)pyrene (PAH)	1.66	3.87 **	1.35	2.68 *
naphtalene (PAH)	1.45	1.46	1.63	1.48
phenanthrene (PAH)	0.27	0.78	1.25	-3.01 **
pyrene (PAH)	1.30	3.51 **	0.84	2.38 *
PCB 028 (PCB)	-0.04	0.49	1.72	0.31
PCB 052 (PCB)	0.86	7.72 **	6.74 **	1.21
PCB 101 (PCB)	-0.10	-0.11	-0.55	0.94
PCB 118 (PCB)	0.59	0.30	-0.42	1.88
PCB 138 (PCB)	0.06	0.20	-0.16	0.02
PCB 153 (PCB)	0.48	0.12	-0.61	0.39
PCB 180 (PCB)	-0.02	0.03	0.08	0.01
Mineral oil, GC (OD)	-0.55	-0.02	-0.44	-0.48
Particles < 63 µm (OD)	#	#	#	#
Particles > 63 µm (OD)	#	#	#	#
TECHHK (79)				
acenaphtene (PAH)	<	0.38	0.37	0.31
acenaphtylene (PAH)	<	2.69 *	3.43 **	2.20 *
anthracene (PAH)	0.95	0.85	1.29	89.45 **
benz(a)anthracene (PAH)	0.49	0.23	1.03	0.41
benzo(a)pyrene (PAH)	1.43	0.94	1.36	1.37
benzo(b)fluoranthene (PAH)	2.12 *	2.69 *	2.88 *	2.21 *
benzo(ghi)perylene (PAH)	0.69	0.91	0.46	0.39
benzo(k)fluoranthene (PAH)	0.67	-0.62	-0.01	0.24
chrysene (PAH)	0.45	-0.31	1.03	1.03
dibenz(ah)anthracene (PAH)	0.97	0.69	-0.07	1.13
fluoranthene (PAH)	-2.35 *	-2.13 *	0.53	-0.81

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
TECHHK (79) (cont.)				
fluorene (PAH)	0.54	0.40	1.01	0.52
indeno(1,2,3-cd)pyrene (PAH)	1.03	1.77	1.06	1.53
naphtalene (PAH)	1.25	1.21	1.26	1.05
phenanthrene (PAH)	0.17	0.20	0.60	0.09
pyrene (PAH)	-1.53	-1.74	0.42	-0.56
hexachlorobenzene (OCB)	<	< #	< #	<
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	<	< #	< #	-2.62 < *
Inorganic carbon (OD)	#	#	#	#
Organic carbon (OD)	0.39	0.53	1.94	0.69
As (MET)	-0.24	-0.31	-0.26	-0.15
Ba (MET)	1.94	-0.06	-0.19	0.10
Cd (MET)	1.15	0.47	0.59	0.47
Co (MET)	0.06	-0.18	-0.20	0.34
Cr (MET)	-0.03	-0.49	-0.45	0.23
Cu (MET)	0.14	0.26	0.29	-0.15
Hg (MET)	-1.17	-1.32	0.23	-0.30
Ni (MET)	-0.36	-0.28	-0.15	0.11
Pb (MET)	-0.10	-0.56	-0.01	-0.27
Zn (MET)	0.23	0.08	0.51	0.66
Tributyl Tin (TBT) (EXP)	#	#	#	#
EPILAB-1A (87)				
acenaphtene (PAH)	-0.81	-1.11	-0.60	-0.69
acenaphtylene (PAH)	0.13	-0.06	0.74	0.61
anthracene (PAH)	-0.56	-0.79	-0.77	0.06
benz(a)anthracene (PAH)	-0.77	-0.48	-0.35	-0.74
benzo(a)pyrene (PAH)	-0.83	0.12	0.28	-0.43
benzo(b)fluoranthene (PAH)	-0.91	-0.58	-0.53	-0.69
benzo(ghi)perylene (PAH)	-0.55	-0.21	-0.30	-0.50
benzo(k)fluoranthene (PAH)	-1.84	-1.16	-0.69	-0.98
chrysene (PAH)	0.08	0.42	0.56	0.45
dibenz(ah)anthracene (PAH)	0.24	0.79	1.81	1.08
fluoranthene (PAH)	-0.99	0.28	-0.65	-0.78
fluorene (PAH)	-0.86	-0.65	0.15	0.81
indeno(1,2,3-cd)pyrene (PAH)	-1.25	-0.68	-0.57	-0.76
naphtalene (PAH)	-1.44	-1.29	-1.20	-1.49
phenanthrene (PAH)	-0.93	0.42	-1.49	-0.12
pyrene (PAH)	-0.83	-0.16	-0.79	-0.76
PCB 028 (PCB)	<	<	<	<
PCB 052 (PCB)	<	<	<	-1.69
PCB 077 (PCB)	#	#	#	#
PCB 081 (PCB)	#	#	#	#
PCB 101 (PCB)	<	<	<	-0.85
PCB 105 (PCB)	#	#	#	0.43
PCB 114 (PCB)	#	#	#	#
PCB 118 (PCB)	0.03	-0.11	-0.02	-0.63
PCB 123 (PCB)	#	#	#	#
PCB 126 (PCB)	#	#	#	#
PCB 138 (PCB)	<	<	<	-0.62
PCB 153 (PCB)	<	<	<	-1.45
PCB 156 (PCB)	#	#	#	#
PCB 157 (PCB)	#	#	#	#
PCB 167 (PCB)	#	#	#	#
PCB 169 (PCB)	#	#	#	#
PCB 180 (PCB)	<	<	<	-1.49
PCB 189 (PCB)	#	#	#	#
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
chlordan (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
EPILAB-1A (87) (cont.)				
endosulfan (OCB)	< #	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-1.16	< #	< #	-1.00
hexachlorobutadiene (OCB)	< #	< #	< #	< #
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	<	< #	< #
p,p`-DDE (OCB)	<	<	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
pentachlorobenzene (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
AOX (OD)	#	#	#	#
Inorganic carbon (OD)	#	#	#	#
Mineral oil, GC (OD)	-0.56	-0.66	-0.33	-0.61
Organic carbon (OD)	-0.49	-0.55	0.49	-0.52
As (MET)	-0.08	0.65	0.16	-0.07
Ba (MET)	0.03	0.29	0.61	0.10
Cd (MET)	0.62	0.24	1.11	0.23
Co (MET)	0.41	0.43	0.71	0.85
Cr (MET)	0.75	0.73	0.19	0.78
Cu (MET)	-0.68	0.18	0.16	-0.55
Hg (MET)	0.95	0.71	1.33	0.09
Mo (MET)	0.67	1.30	0.47	0.73
Ni (MET)	1.22	1.39	1.43	1.24
Pb (MET)	0.70	0.69	0.81	1.28
Zn (MET)	-0.29	0.08	0.56	-0.80
1,2,3,4,6,7,8 Cl7DD (DD)	#	#	#	#
1,2,3,4,7,8 Cl6DD (DD)	#	#	#	#
1,2,3,6,7,8 Cl6DD (DD)	#	#	#	#
1,2,3,7,8 Cl5DD (DD)	#	#	#	#
1,2,3,7,8,9 Cl6DD (DD)	#	#	#	#
2,3,7,8 Cl4DD (DD)	#	#	#	#
Cl8DD (DD)	#	#	#	#
1,2,3,4,6,7,8 Cl7DF (DF)	#	#	#	#
1,2,3,4,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,4,7,8,9 Cl7DF (DF)	#	#	#	#
1,2,3,6,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,7,8 Cl5DF (DF)	#	#	#	#
1,2,3,7,8,9 Cl6DF (DF)	#	#	#	#
2,3,4,6,7,8 Cl6DF (DF)	#	#	#	#
2,3,4,7,8 Cl5DF (DF)	#	#	#	#
2,3,7,8 Cl4DF (DF)	#	#	#	#
Cl8DF (DF)	#	#	#	#
GAL (91)				
acenaphtene (PAH)	-0.66	-0.55	-0.44	-0.15
acenaphtylene (PAH)	-0.48	-0.17	-0.19	-0.04
anthracene (PAH)	-0.39	-0.48	0.62	0.24
benz(a)anthracene (PAH)	-0.45	1.47	1.31	1.26
benzo(a)pyrene (PAH)	-0.90	-1.14	0.93	-0.86
benzo(b)fluoranthene (PAH)	-1.09	-0.68	0.17	-1.11
benzo(ghi)perylene (PAH)	-1.02	-0.61	1.02	-0.65
benzo(k)fluoranthene (PAH)	0.33	0.95	1.04	0.23
chrysene (PAH)	0.28	0.47	1.10	0.51
dibenz(ah)anthracene (PAH)	-0.39	0.31	0.34	1.98
fluoranthene (PAH)	-0.27	-0.40	1.57	0.12
fluorene (PAH)	-0.81	-1.05	-0.78	-0.95
indeno(1,2,3-cd)pyrene (PAH)	-0.19	0.14	1.20	0.09
naphtalene (PAH)	0.75	1.48	0.68	1.23
phenanthrene (PAH)	0.59	0.94	1.76	1.08

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
GAL (91) (cont.)				
pyrene (PAH)	-0.39	0.09	1.35	-0.53
PCB 028 (PCB)	<	-0.02	<	-0.30
PCB 052 (PCB)	<	-0.83	<	-0.51
PCB 101 (PCB)	-2.08 < *	-1.24	<	-0.81
PCB 118 (PCB)	<	-0.66	<	-1.19
PCB 138 (PCB)	-1.17	-0.09	0.14	-0.40
PCB 149 (PCB)	#	#	#	#
PCB 153 (PCB)	-1.02	-0.14	-0.45	-0.41
PCB 180 (PCB)	-1.80	0.10	-0.55	-0.58
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	#	< #	< #
hexachlorobenzene (OCB)	-1.92	< #	< #	-0.50
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	0.69	#	#
p,p`-DDE (OCB)	-3.44 < **	1.67	< #	#
p,p`-DDT (OCB)	< #	#	#	#
pentachlorobenzene (OCB)	#	< #	< #	#
Inorganic carbon (OD)	#	#	#	#
Mineral oil, GC (OD)	-0.84	-0.29	-1.41	-0.56
Mineral oil, IR (OD)	#	#	#	#
Organic carbon (OD)	-0.51	-0.71	0.01	-0.51
Hg (MET)	0.72	0.18	0.07	-1.03
STCRSC (92)				
acenaphtene (PAH)	0.73	1.93	-1.16	-1.06
acenaphtylene (PAH)	0.99	0.43	-0.68	-0.62
anthracene (PAH)	-0.61	-0.68	-1.41	-0.98
benz(a)anthracene (PAH)	-1.80	-2.22 *	-1.39	-1.24
benzo(a)pyrene (PAH)	-0.85	-1.08	-1.48	-1.19
benzo(b)fluoranthene (PAH)	-1.42	-1.46	-1.38	-1.37
benzo(ghi)perylene (PAH)	1.55	1.97	-0.60	-0.53
benzo(k)fluoranthene (PAH)	-1.87	-2.47 *	-2.00	-2.51 *
chrysene (PAH)	-1.71	-2.17 *	-1.25	-1.25
dibenz(ah)anthracene (PAH)	2.49 *	2.69 *	1.47	1.20
fluoranthene (PAH)	-1.95	-1.85	-1.70	-1.90
fluorene (PAH)	-0.06	-0.13	-1.22	-1.13
indeno(1,2,3-cd)pyrene (PAH)	-0.06	0.50	-1.03	-0.94
naphtalene (PAH)	-0.55	-0.63	-0.41	-0.45
phenanthrene (PAH)	-1.20	-0.54	-2.10 *	-0.73
pyrene (PAH)	-1.61	-1.96	-1.45	-1.58
PCB 028 (PCB)	-0.96	-1.00	-0.20	-1.58
PCB 052 (PCB)	-2.73 *	-1.40	-0.54	-2.94 *
PCB 101 (PCB)	-1.77	-3.00 *	-0.76	-1.17
PCB 138 (PCB)	-1.15	-1.40	-0.42	-0.83
PCB 153 (PCB)	-1.06	-2.11 *	0.98	3.92 **
PCB 180 (PCB)	-2.33 *	-2.23 *	-1.28	-2.17 *
Mineral oil, GC (OD)	0.08	-0.75	-0.38	4.62 **
As (MET)	-1.15	-2.05 *	4.10 **	1.92
Cd (MET)	-0.88	-0.09	0.70	1.33
Cr (MET)	-0.06	-0.13	0.39	0.27
Cu (MET)	-0.30	-0.27	3.18 **	1.58
Hg (MET)	1.10	1.03	-1.35	0.76
Ni (MET)	-1.10	-0.83	0.81	-0.39
Pb (MET)	-0.50	-0.75	3.39 **	-0.19
Zn (MET)	-0.17	-0.38	2.31 *	1.20
VERITAS (101)				
acenaphtene (PAH)	0.52	0.19	0.77	0.81
acenaphtylene (PAH)	-0.79	-0.75	-0.34	-0.17
anthracene (PAH)	-0.44	-0.68	0.08	-0.36
benz(a)anthracene (PAH)	0.03	-0.64	0.28	0.36
benzo(a)pyrene (PAH)	1.36	0.10	-1.04	2.42 *
benzo(b)fluoranthene (PAH)	0.16	-0.20	-0.05	-0.48
benzo(ghi)perylene (PAH)	0.99	0.06	0.76	1.05
benzo(k)fluoranthene (PAH)	0.97	0.14	0.41	0.17

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
VERITAS (101) (cont.)				
chrysene (PAH)	0.61	-0.27	-0.07	-0.54
dibenz(ah)anthracene (PAH)	-0.50	-0.57	0.51	0.41
fluoranthene (PAH)	0.33	-0.24	-0.20	-1.23
fluorene (PAH)	-0.26	-0.75	-0.07	-0.15
indeno(1,2,3-cd)pyrene (PAH)	0.92	0.20	0.73	0.84
naphtalene (PAH)	0.38	0.72	0.28	0.15
phenanthrene (PAH)	0.73	0.42	-0.16	-0.30
pyrene (PAH)	0.21	-0.42	-0.16	-0.68
PCB 028 (PCB)	<	<	<	<
PCB 052 (PCB)	<	<	<	<
PCB 101 (PCB)	-2.42 *	-0.28	<	-2.24 *
PCB 118 (PCB)	<	-1.44	<	-4.00 **
PCB 138 (PCB)	-0.80	<	<	-2.08 *
PCB 153 (PCB)	-0.76	<	<	-2.06 *
PCB 180 (PCB)	0.15	<	<	-2.01 < *
Mineral oil, GC (OD)	-0.73	-2.91 *	-1.35	-3.71 **
RECKENHOLZ (108)				
acenaphtene (PAH)	0.04	0.26	0.91	0.04
acenaphtylene (PAH)	-1.33	-1.31	-1.23	-0.85
anthracene (PAH)	-0.17	-0.18	0.07	-0.85
benz(a)anthracene (PAH)	-0.27	-0.08	0.88	0.53
benzo(a)pyrene (PAH)	-0.97	-0.71	0.30	0.20
benzo(b)fluoranthene (PAH)	-0.81	-0.41	0.01	0.05
benzo(ghi)perylene (PAH)	-0.28	-0.63	-0.97	-0.33
benzo(k)fluoranthene (PAH)	-1.23	-0.71	0.42	0.25
chrysene (PAH)	-1.06	-0.75	-0.21	0.08
dibenz(ah)anthracene (PAH)	0.03	-0.01	-0.74	-0.26
fluoranthene (PAH)	-0.67	-0.13	0.35	0.66
fluorene (PAH)	-0.76	-0.44	-0.60	-0.02
indeno(1,2,3-cd)pyrene (PAH)	-0.57	-0.11	-0.35	0.07
naphtalene (PAH)	0.73	1.17	0.59	0.84
phenanthrene (PAH)	-0.22	-0.01	0.90	0.20
pyrene (PAH)	-0.72	-0.63	-0.20	0.14
PCB 028 (PCB)	<	<	<	-3.35 < **
PCB 052 (PCB)	0.36	-0.04	-0.15	0.84
PCB 101 (PCB)	-0.47	-0.24	-0.06	0.03
PCB 118 (PCB)	-0.41	-0.67	-0.19	0.01
PCB 138 (PCB)	-1.11	-1.39	-0.90	-1.16
PCB 153 (PCB)	0.21	-0.19	0.82	1.07
PCB 180 (PCB)	0.24	0.79	1.29	0.87
THO1808MAS (110)				
acenaphtene (PAH)	-0.66	-1.01	-1.56	-4.61 **
acenaphtylene (PAH)	-0.38	-0.26	-0.35	0.00
anthracene (PAH)	0.21	0.36	-0.12	0.36
benz(a)anthracene (PAH)	0.38	0.36	0.30	0.53
benzo(a)pyrene (PAH)	0.28	0.66	0.04	0.56
benzo(b)fluoranthene (PAH)	-0.34	-0.28	0.87	-0.23
benzo(ghi)perylene (PAH)	0.13	0.43	-1.87	-0.72
benzo(k)fluoranthene (PAH)	-0.53	0.12	-1.48	-0.64
chrysene (PAH)	-0.65	-0.65	-1.34	-0.87
dibenz(ah)anthracene (PAH)	-0.25	-0.30	-1.79	-0.77
fluoranthene (PAH)	0.02	0.92	-0.61	-0.21
fluorene (PAH)	-1.16	-1.05	-1.20	-0.40
indeno(1,2,3-cd)pyrene (PAH)	-0.30	-0.10	-0.24	0.23
naphtalene (PAH)	-0.18	-0.04	0.06	-0.15
phenanthrene (PAH)	-0.47	-0.54	-1.04	-0.75
pyrene (PAH)	0.28	1.31	-0.54	0.51
PCB 028 (PCB)	0.12	-0.29	0.28	0.54
PCB 052 (PCB)	0.48	0.82	0.87	-0.46
PCB 101 (PCB)	0.11	0.54	0.07	0.39
PCB 118 (PCB)	-0.12	0.25	0.44	0.40
PCB 138 (PCB)	0.46	0.24	-0.20	0.29
PCB 153 (PCB)	0.23	-0.08	-0.22	0.32
PCB 180 (PCB)	-0.63	-0.72	-0.46	-0.51

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
THO1808MAS (110) (cont.)				
Mineral oil, GC (OD)	-0.19	0.56	-0.23	0.83
APVROPAVA (112)				
acenaphtene (PAH)	-0.84	-0.68	-0.01	-0.08
acenaphtylene (PAH)	<	<	-	-0.97
anthracene (PAH)	-0.47	-0.45	-0.57	-0.54
benz(a)anthracene (PAH)	-0.22	-0.93	-0.74	-0.97
benzo(a)pyrene (PAH)	0.11	-0.09	0.11	0.28
benzo(b)fluoranthene (PAH)	-0.67	-0.91	-0.69	-0.69
benzo(ghi)perylene (PAH)	-0.25	-0.41	-0.27	-0.06
benzo(k)fluoranthene (PAH)	-0.53	-1.08	-0.37	-0.51
chrysene (PAH)	-0.24	-0.70	-0.30	-0.50
dibenz(ah)anthracene (PAH)	-0.50	-0.55	-0.47	0.53
fluoranthene (PAH)	-0.38	-0.80	-0.23	-0.22
fluorene (PAH)	-0.89	-0.79	-0.43	-0.40
indeno(1,2,3-cd)pyrene (PAH)	-0.15	-0.28	-0.12	-0.13
naphtalene (PAH)	0.13	-0.23	-0.47	-0.37
phenanthrene (PAH)	-0.89	-1.12	-0.52	-0.33
pyrene (PAH)	-0.68	-1.12	-0.67	0.03
FPLL (115)				
Mineral oil, IR (OD)	#	#	#	#
Organic carbon (OD)	1.49	0.95	-0.61	1.14
As (MET)	1.96	0.50	1.69	0.53
Ba (MET)	4.03 **	3.36 **	-0.91	19.31 **
Cd (MET)	<	<	<	-2.83 *
Co (MET)	-5.33 **	0.86	10.78 **	-1.25
Cr (MET)	0.76	1.17	1.34	-1.60
Cu (MET)	-0.17	3.55 **	-0.90	-0.09
Hg (MET)	6.86 **	0.66	12.44 **	2.44 *
Mo (MET)	<	<	0.62	-2.25 < *
Ni (MET)	-1.16	2.27 *	5.69 **	0.49
Pb (MET)	0.36	1.19	1.37	0.30
Zn (MET)	-0.09	0.67	4.59 **	0.77
ORGDIMCH (120)				
acenaphtene (PAH)	1.26	-0.39	1.31	0.73
acenaphtylene (PAH)	-0.12	-0.49	-0.43	-0.39
anthracene (PAH)	1.00	0.54	0.63	-0.01
benz(a)anthracene (PAH)	0.89	0.62	0.77	1.36
benzo(a)pyrene (PAH)	1.26	0.87	0.99	1.13
benzo(b)fluoranthene (PAH)	0.48	0.96	1.72	2.29 *
benzo(ghi)perylene (PAH)	1.17	0.72	0.03	0.37
benzo(k)fluoranthene (PAH)	-0.14	0.50	0.00	0.60
chrysene (PAH)	1.14	0.44	0.51	0.89
dibenz(ah)anthracene (PAH)	1.28	1.15	0.32	0.52
fluoranthene (PAH)	0.82	0.83	0.92	0.81
fluorene (PAH)	0.76	0.72	0.88	0.30
indeno(1,2,3-cd)pyrene (PAH)	0.19	0.36	2.73 *	1.73
naphtalene (PAH)	3.11 **	2.73 *	2.81 *	2.54 *
phenanthrene (PAH)	2.06 *	2.90 *	1.79	-0.50
pyrene (PAH)	0.80	0.39	0.85	0.76
PCB 028 (PCB)	-0.52	-0.40	-0.60	0.92
PCB 031 (PCB)	#	#	#	#
PCB 052 (PCB)	-0.40	-0.23	-0.52	0.31
PCB 077 (PCB)	#	#	#	#
PCB 081 (PCB)	#	#	#	#
PCB 101 (PCB)	0.91	0.63	0.35	0.07
PCB 105 (PCB)	#	#	#	0.54
PCB 114 (PCB)	#	#	#	#
PCB 118 (PCB)	1.20	0.22	-0.01	1.62
PCB 123 (PCB)	#	#	#	#
PCB 126 (PCB)	#	#	#	#
PCB 128 (PCB)	#	#	#	#
PCB 138 (PCB)	0.75	0.63	0.72	1.88
PCB 153 (PCB)	1.77	0.80	0.80	1.80

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ORGDIMCH (120) (cont.)				
PCB 156 (PCB)	#	#	#	#
PCB 157 (PCB)	#	#	#	#
PCB 167 (PCB)	#	#	#	#
PCB 169 (PCB)	#	#	< #	#
PCB 180 (PCB)	2.12 *	0.77	1.84	3.24 **
PCB 189 (PCB)	#	#	#	#
1,2,3 trichlorobenzene (OCB)	< #	< #	< #	< #
1,2,4 trichlorobenzene (OCB)	#	#	#	#
1,3,5 trichlorobenzene (OCB)	#	#	< #	#
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
chlordane (OCB)	< #	< #	< #	< #
cis-chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endosulfan (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	1.79	#	#	-0.71
hexachlorobutadiene (OCB)	#	< #	< #	#
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	-2.94 < *	< #	< #
p,p`-DDE (OCB)	<	-2.12 < *	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
Sum trichlorobenzenes (OCB)	#	#	#	#
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Free (OD)	< #	< #	< #	< #
CN - Total (OD)	<	< #	< #	-0.30
Mineral oil, GC (OD)	-0.41	-0.85	0.55	-0.39
Organic carbon (OD)	-1.30	-1.22	-0.23	-1.10
As (MET)	-0.78	-1.29	-1.04	-0.91
Ba (MET)	0.12	0.11	0.05	0.00
Cd (MET)	-0.25	0.86	-1.33	-0.40
Co (MET)	-1.38	-1.12	-0.40	-1.32
Cr (MET)	-1.22	-0.65	-0.61	-0.99
Cu (MET)	-1.69	-0.40	-1.71	-1.40
Hg (MET)	0.76	1.48	0.94	1.09
Mo (MET)	-0.53	-0.28	-0.68	-0.86
Ni (MET)	-1.03	-0.43	0.03	-1.13
Pb (MET)	-1.37	-1.44	-0.36	-1.81
Zn (MET)	-0.65	-0.49	-0.90	0.59
1,2,3,4,6,7,8 Cl7DD (DD)	#	#	#	#
1,2,3,4,7,8 Cl6DD (DD)	#	#	#	#
1,2,3,6,7,8 Cl6DD (DD)	#	#	#	#
1,2,3,7,8 Cl5DD (DD)	#	#	#	#
1,2,3,7,8,9 Cl6DD (DD)	#	#	#	#
2,3,7,8 Cl4DD (DD)	#	#	#	#
Cl8DD (DD)	#	#	#	#
1,2,3,4,6,7,8 Cl7DF (DF)	#	#	#	#
1,2,3,4,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,4,7,8,9 Cl7DF (DF)	#	#	#	#
1,2,3,6,7,8 Cl6DF (DF)	#	#	#	#
1,2,3,7,8 Cl5DF (DF)	#	#	#	#
1,2,3,7,8,9 Cl6DF (DF)	#	#	#	#
2,3,4,6,7,8 Cl6DF (DF)	#	#	#	#
2,3,4,7,8 Cl5DF (DF)	#	#	#	#
2,3,7,8 Cl4DF (DF)	#	#	#	#
Cl8DF (DF)	#	#	#	#

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ORGDIMCH (120) (cont.)				
Tributyl Tin (TBT) (EXP)	#	#	#	#
HHAUFU (134)				
acenaphtene (PAH)	0.48	1.23	1.01	-0.59
acenaphtylene (PAH)	<	-0.24	-0.29	-0.36
anthracene (PAH)	0.18	0.36	0.34	-0.40
benz(a)anthracene (PAH)	0.11	0.02	-0.35	-0.34
benzo(a)pyrene (PAH)	-0.39	-0.77	-2.27 *	-1.37
benzo(b)fluoranthene (PAH)	0.29	0.36	-0.70	-0.63
benzo(ghi)perylene (PAH)	0.29	-0.47	-1.62	-0.81
benzo(k)fluoranthene (PAH)	-0.20	-0.87	-1.59	-1.43
chrysene (PAH)	-0.57	-1.00	-0.99	-0.90
dibenz(ah)anthracene (PAH)	0.89	0.31	-0.40	0.10
fluoranthene (PAH)	-0.03	-0.27	-1.46	-2.25 *
fluorene (PAH)	0.38	0.66	0.49	-0.10
indeno(1,2,3-cd)pyrene (PAH)	0.18	-0.44	-1.28	-0.65
naphtalene (PAH)	0.45	0.40	0.50	0.17
phenanthrene (PAH)	-0.40	-0.54	-0.65	-1.49
pyrene (PAH)	0.15	-0.12	-0.96	-1.51
PCB 028 (PCB)	-0.93	<	28.03 **	-1.39
PCB 052 (PCB)	-2.29 *	1.31	16.08 **	-1.00
PCB 101 (PCB)	-2.42 *	-1.34	29.80 **	-1.15
PCB 138 (PCB)	-1.42	-0.54	8.77 **	-0.21
PCB 153 (PCB)	-1.87	-0.78	19.82 **	-0.70
PCB 180 (PCB)	-2.28 *	-1.30	11.52 **	-1.10
EOX (OD)	1.18	-0.28	<	2.69 *
Mineral oil, GC (OD)	1.54	1.54	2.41 *	1.58
CH-SAMEN (469)				
acenaphtene (PAH)	-0.01	-0.97	-0.54	0.43
acenaphtylene (PAH)	2.88 *	1.14	0.76	1.46
anthracene (PAH)	1.75	-0.95	0.75	-0.13
benz(a)anthracene (PAH)	0.38	0.99	0.37	0.04
benzo(a)pyrene (PAH)	2.44 *	0.95	4.39 **	3.61 **
benzo(b)fluoranthene (PAH)	0.89	1.68	3.04 **	2.57 *
benzo(ghi)perylene (PAH)	1.81	0.87	2.25 *	0.85
benzo(k)fluoranthene (PAH)	0.33	0.70	1.98	0.17
chrysene (PAH)	0.14	-0.33	1.37	-0.05
dibenz(ah)anthracene (PAH)	17.18 **	11.35 **	18.73 **	12.13 **
fluoranthene (PAH)	1.02	0.90	0.63	1.33
fluorene (PAH)	0.97	0.99	0.86	0.67
indeno(1,2,3-cd)pyrene (PAH)	4.04 **	3.17 **	3.68 **	4.20 **
naphtalene (PAH)	-0.58	-1.38	-0.95	-0.77
phenanthrene (PAH)	2.66 *	-0.92	-0.71	-0.81
pyrene (PAH)	0.66	-0.24	1.25	0.38
Mineral oil, GC (OD)	-1.61	-1.35	-3.09 **	-1.04
ECCM (841)				
acenaphtene (PAH)	-0.85	-0.50	0.26	0.42
acenaphtylene (PAH)	-0.25	0.25	0.76	1.11
anthracene (PAH)	-1.06	-0.95	-0.08	-0.34
benz(a)anthracene (PAH)	-1.04	-0.71	2.26 *	-0.41
benzo(a)pyrene (PAH)	-1.04	-0.40	1.07	0.31
benzo(b)fluoranthene (PAH)	-1.28	-0.97	0.23	-0.68
benzo(ghi)perylene (PAH)	0.64	1.41	1.98	0.76
benzo(k)fluoranthene (PAH)	-1.48	-0.11	1.93	-0.64
chrysene (PAH)	-1.17	-0.77	0.23	0.08
dibenz(ah)anthracene (PAH)	-1.23	-0.76	0.06	-0.94
fluoranthene (PAH)	-1.23	-0.27	3.80 **	0.49
fluorene (PAH)	-0.90	-1.07	0.80	2.42 *
indeno(1,2,3-cd)pyrene (PAH)	-0.90	0.25	0.73	-0.33
naphtalene (PAH)	-0.94	-0.50	-0.59	-0.53
phenanthrene (PAH)	-0.44	0.44	3.21 **	3.08 **
pyrene (PAH)	-0.61	0.00	3.77 **	0.83
PCB 028 (PCB)	-0.31	-0.72	-0.38	0.12
PCB 052 (PCB)	-0.26	-0.17	-0.39	0.13

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
ECCM (841) (cont.)				
PCB 101 (PCB)	0.31	0.71	0.52	0.77
PCB 138 (PCB)	-0.65	-0.65	-0.29	-0.31
PCB 153 (PCB)	0.35	0.05	0.93	0.61
PCB 180 (PCB)	0.41	0.03	1.09	0.54
LAB607 (862)				
acenaphtene (PAH)	-1.44	-1.30	0.18	-0.87
acenaphtylene (PAH)	<	-1.49	-1.27	-0.77
anthracene (PAH)	-1.07	-0.84	-1.00	-0.49
benz(a)anthracene (PAH)	2.04 *	0.27	-2.50 *	1.66
benzo(a)pyrene (PAH)	-0.37	-1.34	-4.06 **	-0.22
benzo(b)fluoranthene (PAH)	0.06	-0.27	-2.19 *	0.38
benzo(ghi)perylene (PAH)	-1.04	-2.31 *	-3.58 **	-1.26
benzo(k)fluoranthene (PAH)	1.45	0.33	-2.78 *	1.22
chrysene (PAH)	1.54	0.36	-2.45 *	1.98
dibenz(ah)anthracene (PAH)	-1.29	-1.79	-3.38 **	-1.97
fluoranthene (PAH)	-1.31	-1.64	-0.91	-3.02 **
fluorene (PAH)	-0.21	0.33	0.57	-0.13
indeno(1,2,3-cd)pyrene (PAH)	-1.45	-2.38 *	-3.09 **	-1.43
naphtalene (PAH)	-0.65	-0.10	-0.79	-0.89
phenanthrene (PAH)	-0.72	-0.80	-0.65	-2.96 *
pyrene (PAH)	-0.47	-0.63	-0.14	-0.34
PCB 028 (PCB)	0.82	2.83 *	3.50 **	2.82 *
PCB 052 (PCB)	0.77	0.81	0.69	0.64
PCB 101 (PCB)	-0.20	2.16 *	<	0.70
PCB 118 (PCB)	0.31	0.40	<	-0.11
PCB 138 (PCB)	0.90	1.85	1.18	1.62
PCB 153 (PCB)	1.24	1.35	1.83	0.89
PCB 180 (PCB)	0.68	1.45	0.20	0.98
Mineral oil, GC (OD)	0.83	0.77	0.18	0.54
CNRLBR (875)				
acenaphtene (PAH)	-0.31	-0.22	-0.62	0.05
acenaphtylene (PAH)	-0.61	-0.63	-0.76	-0.76
anthracene (PAH)	-0.27	0.39	-1.16	-0.54
benz(a)anthracene (PAH)	-0.94	-1.29	-1.35	-0.80
benzo(a)pyrene (PAH)	-0.56	-0.63	-0.99	-0.61
benzo(b)fluoranthene (PAH)	-0.53	-0.55	-0.58	-0.44
benzo(ghi)perylene (PAH)	0.08	0.00	-0.32	0.41
benzo(k)fluoranthene (PAH)	-0.81	-1.43	-0.92	-0.42
chrysene (PAH)	-0.98	-1.50	-1.10	-0.71
dibenz(ah)anthracene (PAH)	-0.16	-0.03	-0.19	0.06
fluoranthene (PAH)	-0.38	-0.62	-0.99	0.73
fluorene (PAH)	-0.53	-0.39	-1.10	-0.40
indeno(1,2,3-cd)pyrene (PAH)	-0.56	-0.63	-0.81	-0.29
naphtalene (PAH)	0.77	0.15	0.28	0.48
phenanthrene (PAH)	-0.22	-0.36	-0.52	1.16
pyrene (PAH)	-0.32	-0.78	-1.12	0.14
PCB 028 (PCB)	0.27	-0.52	<	0.73
PCB 052 (PCB)	0.36	0.05	-0.17	0.35
PCB 101 (PCB)	0.87	0.40	0.56	0.67
PCB 118 (PCB)	0.59	-0.32	-0.33	0.64
PCB 138 (PCB)	0.28	-0.12	-0.24	0.24
PCB 153 (PCB)	0.98	0.18	0.93	0.80
PCB 180 (PCB)	1.02	-0.10	0.19	0.63
alpha-HCH (OCB)	< #	#	< #	< #
beta-HCH (OCB)	< #	#	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	#	< #	< #
hexachlorobenzene (OCB)	0.34	#	#	0.40
o,p`-DDD (OCB)	< #	#	< #	#
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	#
p,p`-DDD (OCB)	#	-0.03	#	#
p,p`-DDE (OCB)	-0.83	-0.38	< #	#
p,p`-DDT (OCB)	#	< #	#	#

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
LABAMB (878)				
acenaphtene (PAH)	0.84	1.74	-0.22	-0.13
acenaphtylene (PAH)	-0.07	-0.29	-0.34	0.26
anthracene (PAH)	0.07	-0.03	-0.62	0.23
benz(a)anthracene (PAH)	0.19	-0.09	-0.11	0.17
benzo(a)pyrene (PAH)	-0.37	-0.22	-0.43	0.04
benzo(b)fluoranthene (PAH)	-0.68	-0.49	-0.53	-0.36
benzo(ghi)perylene (PAH)	-0.57	-0.46	-0.56	-0.03
benzo(k)fluoranthene (PAH)	-0.17	0.08	-0.26	0.13
chrysene (PAH)	0.08	-0.08	-0.13	0.31
dibenz(ah)anthracene (PAH)	0.29	0.28	0.56	0.66
fluoranthene (PAH)	-0.11	0.25	0.39	0.73
fluorene (PAH)	0.49	0.79	0.07	0.42
indeno(1,2,3-cd)pyrene (PAH)	-1.17	-1.08	-0.82	-0.43
naphtalene (PAH)	-0.32	-0.28	-0.09	-0.39
phenanthrene (PAH)	0.45	0.96	0.02	0.57
pyrene (PAH)	-0.22	-0.29	0.00	0.34
PCB 028 (PCB)	-0.38	0.32	<	-0.81
PCB 031 (PCB)	#	#	< #	#
PCB 052 (PCB)	-0.45	1.63	0.54	0.24
PCB 077 (PCB)	< #	< #	< #	#
PCB 081 (PCB)	< #	< #	< #	< #
PCB 101 (PCB)	0.46	2.40 *	0.61	-0.01
PCB 105 (PCB)	#	#	< #	-0.51
PCB 114 (PCB)	< #	< #	< #	< #
PCB 118 (PCB)	-1.01	0.75	1.08	0.32
PCB 123 (PCB)	< #	< #	< #	#
PCB 126 (PCB)	< #	< #	< #	< #
PCB 128 (PCB)	#	#	#	#
PCB 138 (PCB)	-0.56	3.82 **	1.15	0.73
PCB 149 (PCB)	#	#	#	#
PCB 153 (PCB)	-0.23	4.54 **	3.95 **	1.08
PCB 156 (PCB)	< #	< #	< #	#
PCB 157 (PCB)	#	#	< #	#
PCB 167 (PCB)	< #	< #	< #	#
PCB 169 (PCB)	< #	< #	< #	< #
PCB 180 (PCB)	1.80	5.23 **	2.87 *	1.24
PCB 189 (PCB)	#	< #	< #	#
1,2,3,4 tetrachlorobenzene (OCB)	#	#	< #	#
cis-chlordane (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	0.08	< #	< #	0.49
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	-2.27 *	< #	#
p,p`-DDE (OCB)	-0.09	6.41 **	#	#
p,p`-DDT (OCB)	< #	< #	#	#
pentachlorobenzene (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
CN - Total (OD)	-0.10	#	#	-0.72
Mineral oil, GC (OD)	1.10	0.67	1.39	1.12
Organic carbon (OD)	1.13	0.96	-0.01	0.60
As (MET)	-0.67	-0.50	-0.40	-0.42
Cd (MET)	0.09	0.20	-0.55	0.08
Cr (MET)	0.28	0.11	0.01	0.47
Cu (MET)	2.61 *	-0.61	-3.12 **	-0.73
Hg (MET)	0.12	-0.94	-1.03	-0.26
Ni (MET)	0.31	0.56	0.13	0.39
Pb (MET)	0.37	0.25	-0.78	0.38
Zn (MET)	0.11	0.73	-0.70	0.17
Tributyl Tin (TBT) (EXP)	#	#	#	#
CHE (887)				
anthracene (PAH)	-1.07	-1.32	-1.70	-1.17
benzo(a)pyrene (PAH)	0.37	-0.35	-0.01	-1.20
benzo(ghi)perylene (PAH)	0.43	-0.21	0.18	-0.92
fluoranthene (PAH)	-1.56	-2.15 *	-1.96	-3.49 **

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
CHE (887) (cont.)				
indeno(1,2,3-cd)pyrene (PAH)	1.86	1.92	1.80	0.48
naphtalene (PAH)	-1.96	-1.66	-1.26	-1.71
1,2,3 trichlorobenzene (OCB)	< #	< #	< #	< #
1,2,4 trichlorobenzene (OCB)	< #	< #	< #	< #
1,3,5 trichlorobenzene (OCB)	< #	< #	< #	< #
aldrin (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	<	< #	< #	-3.15 < **
hexachlorobutadiene (OCB)	< #	< #	< #	< #
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	<	< #	< #
pentachlorobenzene (OCB)	< #	< #	< #	< #
TLR (900)				
PCB 028 (PCB)	-0.11	-0.55	<	-0.94
PCB 031 (PCB)	#	#	< #	#
PCB 052 (PCB)	-0.29	-0.73	<	-1.42
PCB 101 (PCB)	-0.65	-0.84	-0.45	-0.16
PCB 118 (PCB)	-1.59	-0.97	<	-0.98
PCB 138 (PCB)	-0.56	-0.99	-0.44	-0.37
PCB 149 (PCB)	#	#	#	#
PCB 153 (PCB)	-0.45	-0.67	-0.15	-0.41
PCB 180 (PCB)	-0.28	-0.66	-0.06	0.03
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-endosulfan (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
chlordane (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endosulfan (OCB)	< #	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	0.74	< #	< #	0.39
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	<	< #	< #
p,p`-DDE (OCB)	<	<	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
pentachlorobenzene (OCB)	#	< #	< #	#
toxaphene (OCB)	< #	< #	< #	< #
trans-chlordane (OCB)	< #	< #	< #	< #
TAMPERE (911)				
acenaphtene (PAH)	2.25 *	-2.92 *	-0.09	1.29
acenaphtylene (PAH)	3.65 **	-0.76	1.79	1.00
anthracene (PAH)	2.15 *	-1.76	0.54	0.61
benz(a)anthracene (PAH)	5.06 **	-4.59 **	0.02	-0.39
benzo(a)pyrene (PAH)	4.15 **	-3.68 **	-0.10	-0.55
benzo(b)fluoranthene (PAH)	2.33 *	-2.17 *	0.35	-0.19
benzo(ghi)perylene (PAH)	2.62 *	-3.90 **	-0.23	-1.06
benzo(k)fluoranthene (PAH)	3.15 **	-4.31 **	-0.01	-0.60
chrysene (PAH)	4.91 **	-3.24 **	0.68	0.43
dibenz(ah)anthracene (PAH)	2.31 *	-1.99	0.80	-0.45

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
TAMPERE (911) (cont.)				
fluoranthene (PAH)	6.96 **	-4.19 **	0.99	0.95
fluorene (PAH)	0.72	-2.04 *	-0.53	1.14
indeno(1,2,3-cd)pyrene (PAH)	1.55	-3.40 **	-0.03	-0.90
naphtalene (PAH)	-0.76	-0.97	-0.88	-0.74
phenanthrene (PAH)	0.36	-3.01 **	-0.17	2.29 *
pyrene (PAH)	8.02 **	-4.05 **	1.29	1.33
PCB 028 (PCB)	-1.42	0.61	3.61 **	-1.14
PCB 052 (PCB)	-3.00 *	2.73 *	1.00	0.27
PCB 101 (PCB)	-2.56 *	3.41 **	2.13 *	-0.39
PCB 118 (PCB)	-3.68 **	1.29	2.17 *	-0.74
PCB 138 (PCB)	-1.27	2.27 *	1.76	-0.07
PCB 153 (PCB)	-2.42 *	1.30	1.66	-0.86
PCB 180 (PCB)	-2.33 *	0.10	1.51	-0.53
Mineral oil, IR (OD)	#	#	#	#
Organic carbon (OD)	6.37 **	1.90	0.77	8.19 **
As (MET)	0.57	0.19	0.44	0.57
Ba (MET)	0.83	0.82	0.77	1.60
Cd (MET)	-1.01	-0.58	-1.28	-0.87
Co (MET)	-1.46	-1.22	-0.74	-0.17
Cr (MET)	-1.39	-1.23	-1.16	-0.82
Cu (MET)	-1.35	-0.80	-0.05	-0.15
Hg (MET)	-0.70	-0.94	0.55	0.01
Mo (MET)	-0.46	<	-0.79	-0.81
Ni (MET)	-0.30	0.00	-0.03	0.42
Pb (MET)	-0.96	-0.69	-0.57	-0.27
Zn (MET)	-1.62	-1.50	-1.38	-0.60
SHI (912)				
acenaphtene (PAH)	0.56	1.37	1.78	0.63
acenaphtylene (PAH)	1.40	1.61	1.34	1.67
anthracene (PAH)	0.47	0.53	0.97	2.91 *
benz(a)anthracene (PAH)	3.23 **	4.24 **	0.45	1.77
benzo(a)pyrene (PAH)	1.77	1.96	-1.45	0.10
benzo(b)fluoranthene (PAH)	1.15	1.59	-0.28	0.63
benzo(ghi)perylene (PAH)	-0.76	-0.81	-2.07 *	-1.23
benzo(k)fluoranthene (PAH)	1.56	2.09 *	-0.07	1.05
chrysene (PAH)	0.76	1.19	-0.64	0.62
dibenz(ah)anthracene (PAH)	0.79	0.69	0.55	1.04
fluoranthene (PAH)	1.53	2.21 *	-0.49	-0.08
fluorene (PAH)	-0.05	0.04	0.68	0.37
indeno(1,2,3-cd)pyrene (PAH)	-0.44	-0.28	-1.51	-0.90
naphtalene (PAH)	-0.64	-0.58	-0.55	-0.10
phenanthrene (PAH)	-0.31	-0.68	0.02	-0.82
pyrene (PAH)	1.25	2.09 *	-0.56	0.30
Mineral oil, GC (OD)	-1.77	-1.86	-3.59 **	-2.54 *
WANDSCH (958)				
acenaphtene (PAH)	-1.49	-2.14 *	-1.42	0.35
acenaphtylene (PAH)	-0.88	-0.75	-0.85	-0.24
anthracene (PAH)	-1.58	-1.45	-1.73	-0.56
benz(a)anthracene (PAH)	-1.15	-0.70	-0.93	-0.43
benzo(a)pyrene (PAH)	-1.83	-1.07	-1.22	-0.43
benzo(b)fluoranthene (PAH)	-0.03	0.86	0.88	1.65
benzo(ghi)perylene (PAH)	-2.44 *	-2.58 *	-1.90	-1.56
benzo(k)fluoranthene (PAH)	-0.42	0.20	-0.73	-0.05
chrysene (PAH)	-0.36	0.12	-0.97	-0.40
dibenz(ah)anthracene (PAH)	-1.85	-2.24 *	-2.72 *	-2.22 *
fluoranthene (PAH)	-0.71	0.37	-0.76	-0.44
fluorene (PAH)	-1.66	-1.59	-1.31	0.59
indeno(1,2,3-cd)pyrene (PAH)	-0.56	-0.56	0.34	0.78
naphtalene (PAH)	-1.81	-1.65	-1.32	-1.34
phenanthrene (PAH)	-2.26 *	-3.45 **	-2.06 *	-0.50
pyrene (PAH)	-0.58	0.46	-1.00	-0.22
PCB 028 (PCB)	<	<	<	<
PCB 052 (PCB)	<	<	<	<
PCB 101 (PCB)	<	<	<	<

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
WANDSCH (958) (cont.)				
PCB 118 (PCB)	<	<	<	-0.41
PCB 138 (PCB)	-0.16	<	<	-0.46
PCB 153 (PCB)	-0.24	<	<	-0.16
PCB 180 (PCB)	<	<	<	-0.13
Mineral oil, GC (OD)	0.34	0.53	1.03	0.95
Organic carbon (OD)	0.86	-0.17	-1.53	0.57
LUNLAB (1052)				
anthracene (PAH)	1.80	1.71	2.91 *	12.02 **
benz(a)anthracene (PAH)	-0.18	1.88	2.64 *	1.93
benzo(a)pyrene (PAH)	-0.56	-0.11	0.40	1.17
benzo(b)fluoranthene (PAH)	-0.63	-0.38	0.18	0.74
benzo(ghi)perylene (PAH)	-0.76	-0.33	0.96	1.34
benzo(k)fluoranthene (PAH)	-0.64	-0.09	0.55	1.22
chrysene (PAH)	-0.36	0.90	2.17 *	1.25
dibenz(ah)anthracene (PAH)	<	<	-	-
fluoranthene (PAH)	-0.28	-0.47	2.43 *	0.01
fluorene (PAH)	1.14	1.44	2.09 *	0.18
indeno(1,2,3-cd)pyrene (PAH)	-0.83	-0.82	-0.08	0.61
phenanthrene (PAH)	0.87	0.74	4.82 **	-1.34
pyrene (PAH)	-0.26	-0.68	2.64 *	0.23
PA2010LAB (1058)				
acenaphtene (PAH)	-0.83	-0.35	-0.40	-1.02
acenaphtylene (PAH)	-0.77	-0.49	-0.71	-0.92
anthracene (PAH)	-0.33	0.01	-0.73	-0.51
benz(a)anthracene (PAH)	-0.18	-0.06	-0.29	-0.11
benzo(a)pyrene (PAH)	0.31	0.49	-0.11	-0.23
benzo(b)fluoranthene (PAH)	1.54	1.71	1.76	1.36
benzo(ghi)perylene (PAH)	0.55	0.62	0.20	0.03
benzo(k)fluoranthene (PAH)	1.11	3.09 **	1.58	1.36
chrysene (PAH)	0.73	1.20	0.61	0.76
dibenz(ah)anthracene (PAH)	0.26	-0.04	-0.14	-0.05
fluoranthene (PAH)	0.13	0.52	-0.55	-0.91
fluorene (PAH)	-0.32	0.28	-0.16	-0.98
indeno(1,2,3-cd)pyrene (PAH)	0.62	0.82	0.46	0.41
naphtalene (PAH)	0.32	1.04	1.05	0.17
phenanthrene (PAH)	-0.36	0.57	0.28	-0.27
pyrene (PAH)	0.14	0.44	-0.56	-0.84
PCB 028 (PCB)	0.27	0.02	-0.35	0.61
PCB 052 (PCB)	-1.01	-0.70	-0.67	-1.27
PCB 077 (PCB)	#	#	#	#
PCB 081 (PCB)	#	#	< #	#
PCB 101 (PCB)	-1.27	-1.20	-2.70 *	-0.90
PCB 105 (PCB)	#	#	#	0.74
PCB 114 (PCB)	#	#	< #	#
PCB 118 (PCB)	1.43	0.58	-0.71	1.24
PCB 123 (PCB)	#	#	#	#
PCB 126 (PCB)	#	< #	< #	#
PCB 138 (PCB)	-0.35	0.08	-1.25	-0.69
PCB 153 (PCB)	0.30	1.44	-0.28	-0.18
PCB 156 (PCB)	#	#	#	#
PCB 157 (PCB)	#	< #	#	#
PCB 167 (PCB)	#	#	#	#
PCB 169 (PCB)	#	#	#	#
PCB 180 (PCB)	-0.20	0.71	-1.36	-0.66
PCB 189 (PCB)	#	#	#	#
aldrin (OCB)	< #	< #	< #	< #
alpha-endosulfan (OCB)	< #	< #	< #	< #
alpha-HCH (OCB)	< #	< #	< #	< #
beta-HCH (OCB)	< #	< #	< #	< #
delta-HCH (OCB)	< #	< #	< #	< #
dieldrin (OCB)	< #	< #	< #	< #
endosulfan sulfate (OCB)	< #	< #	< #	< #
endrin (OCB)	< #	< #	< #	< #
gamma-HCH (OCB)	< #	< #	< #	< #

(cont)

SETOC 2012.1 Z - Scores - Per Participant

Sample	791	792	784	776
PA2010LAB (1058) (cont.)				
heptachlor (OCB)	< #	< #	< #	< #
heptachlor epoxide (OCB)	< #	< #	< #	< #
hexachlorobenzene (OCB)	-2.25 < *	< #	< #	-3.54 < **
isodrin (OCB)	< #	< #	< #	< #
o,p`-DDD (OCB)	< #	< #	< #	< #
o,p`-DDE (OCB)	< #	< #	< #	< #
o,p`-DDT (OCB)	< #	< #	< #	< #
p,p`-DDD (OCB)	< #	-3.30 < **	< #	< #
p,p`-DDE (OCB)	-3.44 < **	-4.01 < **	< #	< #
p,p`-DDT (OCB)	< #	< #	< #	< #
pentachlorobenzene (OCB)	#	< #	< #	< #
Mineral oil, GC (OD)	1.10	0.43	1.13	0.99
As (MET)	0.73	-0.35	0.86	-0.44
Cd (MET)	-1.32	-1.79	-1.80	-1.16
Co (MET)	0.24	0.17	1.33	-0.45
Cr (MET)	3.74 **	2.08 *	1.91	2.02 *
Cu (MET)	-0.12	-0.66	1.35	-0.56
Hg (MET)	0.36	-0.58	-0.69	0.06
Ni (MET)	0.10	0.28	0.36	-0.35
Pb (MET)	-0.56	-0.78	-0.58	-0.99
Zn (MET)	0.21	0.20	-0.53	-1.34

Errors and Corrections

SETOC 2011 Period 4

Errors and Corrections SETOC 2011 Period 4

Sample	780	784	766	768	Code
Polycyclic aromatic hydrocarbons					
acenaphtene (µg/kg)					
COMALAB (67)	142.0 *	210	100.0 <	100.0 <	D, N
LAB607 (862)	71.0	213	10.0 <	59.0	E, M
===== Statistical Results =====					
NDA mean	86.41	207.2	16.39	68.83	
NDA st dev	20.09	37.9	4.01	14.66	
N	27	29	16	24	
Median	87.54	209.4	17.15	68.82	
MAD	13.76	25.6	2.64	9.46	
=====					
acenaphtylene (µg/kg)					
COMALAB (67)	100.0 <	184	100.00 <	100.0 <	D, N
===== Statistical Results =====					
NDA mean	41.97	242.6	4.175	57.32	
NDA st dev	18.08	82.3	4.268	29.57	
N	23	26	12	23	
Median	43.42	242.5	4.340	61.27	
MAD	12.18	53.5	3.005	21.27	
=====					
anthracene (µg/kg)					
COMALAB (67)	227	692	100.0 <	5167 **	D, N
===== Statistical Results =====					
NDA mean	177.1	716.3	26.85	236.7	
NDA st dev	53.3	67.2	8.03	57.4	
N	38	38	30	36	
Median	173.4	707.5	27.30	244.2	
MAD	36.4	45.4	5.33	40.0	
=====					
benz(a)anthracene (µg/kg)					
COMALAB (67)	861	3457	127	2305	D, N
===== Statistical Results =====					
NDA mean	809.9	3705	135.3	2301	
NDA st dev	97.8	492	23.9	295	
N	37	37	36	36	
Median	814.5	3743	135.0	2303	
MAD	66.5	336	16.4	198	
=====					
benzo(a)pyrene (µg/kg)					
COMALAB (67)	649	3566	105	1919	D, N
===== Statistical Results =====					
NDA mean	576.7	3763	114.6	1752	
NDA st dev	138.4	478	15.6	266	
N	38	38	36	37	
Median	584.6	3682	114.1	1738	
MAD	92.0	329	10.4	181	
=====					

Errors and Corrections SETOC 2011 Period 4

Sample	780	784	766	768	MIC
benzo(b)fluoranthene (µg/kg)					
COMALAB (67)	1110	3731	147	2786	D, N
	===== Statistical Results =====				
NDA mean	1041	3814	144.4	2554	
NDA st dev	118	696	29.9	390	
N	29	29	26	27	
Median	1050	3920	142.0	2581	
MAD	79	470	20.5	261	
	=====				
benzo(ghi)perylene (µg/kg)					
COMALAB (67)	591	2566	100.0 <	1328	D, N
	===== Statistical Results =====				
NDA mean	561.5	2708	90.05	1325	
NDA st dev	116.0	477	12.44	246	
N	37	38	34	36	
Median	560.0	2669	88.30	1308	
MAD	78.5	335	8.56	172	
	=====				
benzo(k)fluoranthene (µg/kg)					
COMALAB (67)	508	1859	100.0 <	1086	D, N
	===== Statistical Results =====				
NDA mean	474.4	1919	71.69	1167	
NDA st dev	67.3	392	14.39	186	
N	36	36	33	35	
Median	474.5	1960	73.00	1190	
MAD	45.9	264	10.00	124	
	=====				
chrysene (µg/kg)					
COMALAB (67)	1002	3595	148	2554	D, N
	===== Statistical Results =====				
NDA mean	933.5	3837	141.7	2469	
NDA st dev	142.4	486	22.2	421	
N	37	37	35	36	
Median	924.0	3800	140.0	2479	
MAD	96.0	326	15.0	287	
	=====				
dibenz(ah)anthracene (µg/kg)					
COMALAB (67)	155	545	100.0 <	364	D, N
	===== Statistical Results =====				
NDA mean	147.3	604.0	21.05	382.4	
NDA st dev	53.5	153.6	9.07	126.1	
N	30	30	23	27	
Median	147.0	613.0	21.70	373.0	
MAD	37.0	98.3	6.16	86.0	
	=====				
fluorene (µg/kg)					
COMALAB (67)	185 *	259	100.0 <	100.0 <	D, N
	===== Statistical Results =====				
NDA mean	110.8	237.3	17.46	85.22	
NDA st dev	28.3	39.7	4.91	19.81	
N	30	31	20	26	
Median	113.2	241.2	17.73	84.00	
MAD	18.9	25.7	3.27	13.79	
	=====				

Errors and Corrections SETOC 2011 Period 4

Sample	780	784	766	768	Code
indeno(1,2,3-cd)pyrene (µg/kg)					
COMALAB (67)	649	2688	100.0 <	1509	D, N
	===== Statistical Results =====				
NDA mean	609.8	2752	88.49	1435	
NDA st dev	95.5	454	16.13	223	
N	37	38	34	36	
Median	600.0	2694	87.77	1448	
MAD	64.0	302	10.79	153	
	=====				
naphtalene (µg/kg)					
COMALAB (67)	144	421	100.0 <	100.0 <	D, N
	===== Statistical Results =====				
NDA mean	109.7	397.0	18.90	68.16	
NDA st dev	48.3	193.5	7.96	50.10	
N	36	37	24	28	
Median	112.1	421.0	21.12	67.66	
MAD	32.1	133.0	5.32	36.00	
	=====				
phenanthrene (µg/kg)					
COMALAB (67)	709	2738	160	1417	D, N
	===== Statistical Results =====				
NDA mean	602.4	2775	152.6	1184	
NDA st dev	121.9	433	31.1	213	
N	37	37	36	36	
Median	586.9	2806	153.1	1190	
MAD	87.5	306	21.6	141	
	=====				
pyrene (µg/kg)					
COMALAB (67)	1526	5378	238	4192	D, N
	===== Statistical Results =====				
NDA mean	1392	5589	223.7	3604	
NDA st dev	225	919	25.3	523	
N	31	31	29	29	
Median	1375	5577	226.6	3700	
MAD	151	662	17.4	350	
	=====				
Other parameters					
Organic carbon (g/kg)					
COMALAB (67)	43.9	29.0	9.80	39.2	D, N
	===== Statistical Results =====				
NDA mean	44.44	28.69	9.900	40.49	
NDA st dev	6.41	1.17	1.335	1.95	
N	11	11	10	10	
Median	44.50	29.00	9.910	41.20	
MAD	4.50	0.85	0.975	1.48	
	=====				



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WE PAL
PO BOX 8005
6700 EC WAGENINGEN
THE NETHERLANDS

Tel. : +31 317 48 23 37
no reply : +31 317 48 23 49
Fax. : +31 317 48 56 66
E-mail : Info.Wepal@wur.nl
Internet: www.wepal.nl