



WAGENINGEN EVALUATING PROGRAMS FOR
ANALYTICAL LABORATORIES



International Soil-Analytical Exchange



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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 04-04-2012 (10:08)

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.

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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 - NH ₄ (as N), N - NO ₃ (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 σ_{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	997	Sandy Soil	Droevendaal / Netherlands
2	863	Clay soil	Maren Kessel/Netherlands
3	865	Loamy soil	Switzerland
4	962	Sandy Clay Soil	N.O. Polder / Netherlands

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 four 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 last three characters (see **Table 6**) indicate the method of detection of the element in the extracts or digests. 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	Digestion/extraction procedure
1	RT	Real totals
2	AE	Acid extractable (So-called totals)
3	AR	Aqua Regia (ISO 11466)
5	NA	Extraction with boiling 2M HNO ₃
6	SN	Extraction with 0.1M NaNO ₃
7	CC	Extraction with 0.01M CaCl ₂ 1:10
8	AN	Extraction with 1M NH ₄ NO ₃ 1:2.5 (w/v) (DIN 19730)
9	SC	Soil characteristics
10	OD	Other determinations
11	F	Fluoride (Swiss standard procedure)
12	AF	Digestion with conc. HNO ₃ + conc. HCl + H ₂ O ₂ (UNEP-UN/EC 91075A)
13	AA	Pot. CEC using 1M NH ₄ -acetate at pH=7
14	BC	Pot. CEC using 1M or 0.1M BaCl ₂ -TEA at pH=8.1 (ISO 13536 OR BZE)
15	AC	Pot. CEC using 1M NH ₄ Cl (BZE)
16	BA	Act. CEC using 0.01M BaCl ₂ (ISO 11260)
17	BB	Act. CEC using 0.1M BaCl ₂ (UNEP-UN/EC 91065A)
18	CH	Act. CEC using cobaltihexamine (AFNOR NFX 31 130)
19	M3	Mehlich-3
20	CAL	Extraction with Ca-lactate (VDLUFA, Germany)
21	DL	Extraction with double lactate (VDLUFA, Germany)
22	WS	Water soluble 1:10 (w/v) (EN-12457-4)
23	CAT	Extraction with 0.01M CaCl ₂ - 0.005M DTPA 1:10 (w/v)
24	KCL	Extraction with 1M KCl 1:10 (w/v)
25	PHOS	Phosphorus and related analysis
26	HCLPN	Extraction with 1M HCl (Polish standard)
27	WSVPR	Water soluble 1:10 (w/v) (Neth standard VPR C85-06)

Table 5 *Digestion/extraction and other procedures*

Code	Digestion/extraction Procedure
-	Details of elementnumbers 103, 126 and 127
\$	No digestion or extraction
+	Exactly the method (procedure) mentioned on the form for results
A	Real total neutron activation analysis
B	Real total X-ray fluorescence with material melted
C	Real total X-ray fluorescence with material pressed
D	Real total melt
E	Real total acid digestion with HF and final medium HCl
F	Real total acid digestion with HF and final medium H ₂ SO ₄
G	Real total acid digestion with HF and final medium HNO ₃
H	Real total acid digestion with HF and final medium HClO ₄
I	"Total analysis" mixture of conc. HNO ₃ + conc. HCl (ISO 11466.2)
J	"Total analysis" others (specify)
K	"Total analysis" mixture of conc. H ₂ SO ₄ + conc. HNO ₃
L	"Total analysis" conc. H ₂ SO ₄ + catalyst(s)
M	Extraction with 1 M NH ₄ NO ₃ 1:2.5 (W/V)
N	Extraction with boiling 2 M HNO ₃ 1:10 (W/V)
O	Extraction with 0.1 M NaNO ₃ 1:2.5 (W/V)
P	Extraction with 0.01 M CaCl ₂ 1:10 (W/V)
Q	Actual CEC + base saturation 0.01 M BaCl ₂ (ISO 11260)
R	Potential CEC + base saturation 1 M Am. acetate
S	Potential CEC + base saturation using 1 M BaCl ₂ -TEA pH=8.1 (ISO 13536)
T	as I using boiling under reflux

Code	Digestion/extraction Procedure
U	as I using a microwave
V	Potential CEC+base saturation using 0.1 M BaCl ₂ +TEA (BZE method)
X	dry combustion
Z	Others

Table 6 *Methods of detection*

Code	Method of detection
AA	AAS Flame without preconcentration
AAA	without background correction using air acetylene
AAB	without background correction using N ₂ O acetylene
AAC	with deuterium background correction using air acetylene
AAD	with deuterium background correction using N ₂ O acetylene
AAE	with Zeeman background correction using air acetylene
AAF	with Zeeman background correction using N ₂ O acetylene
AAG	with pulsed hollow cathode lamp background correction using air acetylene
AAH	with pulsed hollow cathode lamp background correction using N ₂ O acetylene
AB	AAS Flame with preconcentration
ABA	without background correction using air acetylene
ABB	without background correction using N ₂ O acetylene
ABC	with deuterium background correction using air acetylene
ABD	with deuterium background correction using N ₂ O acetylene
ABE	with Zeeman background correction using air acetylene
ABF	with Zeeman background correction using N ₂ O acetylene
ABG	with pulsed hollow cathode lamp background correction using air acetylene
ABH	with pulsed hollow cathode lamp background correction using N ₂ O acetylene
BA	AAS ETA without preconcentration
BAA	without background correction without chemical modifier
BAB	without background correction with chemical modifier*
BAC	with deuterium background correction without chemical modifier
BAD	with deuterium background correction with chemical modifier*
BAE	with Zeeman background correction without chemical modifier
BAF	with Zeeman background correction with chemical modifier*
BAG	with pulsed hollow cathode lamp without chemical modifier
BAH	with pulsed hollow cathode lamp with chemical modifier*
CA	Flame emission
CB	ICP AES (different wavelengths possible; indicate wavelength)
CC	other excitation source (dif. wavelengths possible; indicate 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	Near infrared
N	Infrared
O	Titrimetric/coulometric
P	Gravimetric
R	Fraction < 2 µm , < 63 µm and > 63 µm
RA	Pipet and sieve method
RB	Hydrometer method
RC	Instrumental methods (e.g. counters)
Q	Turbidimetric or Nephelometric
Z	Others

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Used abbreviations and symbols

Table 7 *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 ISE 2012.1

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Ag (mg/kg)						
HIDU	(82)	5.000 <	5.00 <	5.00 <	5.000 <	C KB
KEMIRAKEMI	(140)	-	-	-	1.000	C KB
AECSAGRICS	(248)	0.180	0.55 <	0.18 <	0.500 <	
RIDIK	(926)	2.000 <	2.00 <	2.00 <	2.000 <	C KB
CHEZL	(961)	0.500 <	0.50 <	0.50 <	0.500 <	G D
CNES	(1033)	-	4.00	4.90	5.160	L
NAPLAB1	(1068)	0.500 <	0.50 <	0.50 <	0.500 <	C KB
NPIAS	(1089)	0.200 <	0.70 <	0.40 <	0.400 <	L
SACAV	(1095)	0.700	2.50	1.20	0.500 <	
TEFA	(1099)	0.160 <	0.66 <	0.13 <	0.550 <	\$ L
SYRAT	(1100)	0.140	0.55 <	0.17	0.490	
INDIES	(1106)	0.091 <	0.09 <	0.09 <	0.091 <	A L
===== Statistical Results (no NDA) =====						
N		3	2	3	3	
Median		0.1800	3.250	1.200	1.0000	
MAD		0.0400	0.750	1.030	0.5100	
=====						
Al (g/kg)						
LABTIUM	(16)	17.4	96.3	40.2	63.1	C KB
LAS	(42)	17.5	98.0	39.4	62.2	G CB
TCKI	(64)	17.0	94.0	38.0	61.0	B KA
HIDU	(82)	20.1 *	90.2	40.9	59.8	B KA
BKLABOR	(92)	17.0	94.5	38.1	60.8	B KA
GAL	(95)	16.6	92.7	37.9	59.0	B KA
POLASP	(96)	14.6	77.8 **	36.0	58.7	
VICTORY	(123)	16.6	93.4	38.7	60.5	B KA
KEMIRAKEMI	(140)	16.9	96.9	39.6	62.3	B KA
TYRKEY	(145)	15.7	88.0	37.0	55.3 *	D O
GROTHER_XRF	(149)	17.1	94.2	38.5	60.9	B KA
TEMAD	(175)	17.0	92.0	38.0	59.0	B KA
QLDNR&M	(210)	19.0	-	-	-	D CB
AECSAGRICS	(248)	17.5	91.4	41.3	61.7	A L
Deltares	(293)	15.3	93.1	36.7	60.9	C KB
ANALGEO	(300)	17.7	91.4	38.1	60.4	B KA
NFVGEO	(321)	17.0	93.1	38.1	60.9	G CB
GLAGC	(327)	16.6	92.8	36.2	61.0	G CB
ANAPBO	(448)	14.1 *	76.2 **	29.8 **	49.3 **	J CB
SPASL	(855)	14.6	89.9	32.2 **	49.8 **	G CB
WBT	(866)	18.4	91.8	38.8	61.7	B KA
RIDIK	(926)	16.0	86.6	38.2	61.6	C KB
CHEZL	(961)	16.1	87.5	36.7	58.3	B KA
LDAR02	(984)	17.3	92.8	36.2	58.9	J D
ETRR	(1031)	14.4 *	75.4 **	29.7 **	47.1 **	L
CNES	(1033)	19.2	82.5 *	30.9 **	53.2 **	L
CERT	(1034)	17.9	89.2	37.3	58.8	A L
NECSA	(1035)	26.4 **	36.1 **	23.5 **	30.5 **	\$ L
PA2010LAB	(1058)	16.6	92.0	38.2	61.7	B KA
NAPLAB1	(1068)	16.4	94.4	38.0	60.7	B KA
LEC-NKUA	(1074)	18.0	79.9 **	39.1	55.1 *	G AAB
KFKI	(1091)	23.5 **	113.0 **	48.4 **	73.7 **	L
SYRAT	(1100)	17.8	91.9	40.5	58.6	
INDIES	(1106)	20.2 *	88.8	40.2	60.1	A L
DESAR	(1108)	17.0	87.0	36.4	54.4 *	A L
NOUSSE	(1110)	18.2	102.0 *	34.9	56.2	L
===== Statistical Results =====						
NDA mean		17.04	91.98	38.10	60.27	
NDA st dev		1.26	3.74	1.97	2.16	
N		36	35	35	35	
Median		17.00	91.90	38.00	60.08	
MAD		0.85	2.60	1.40	1.52	
=====						

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
As (mg/kg)						
LABTIUM	(16)	20.00 <	27.0	20.00 <	20.0 <	C KB
LAS	(42)	2.96	29.4	9.03	15.4	J F
HIDU	(82)	3.30	26.4	8.60	14.7	C KB
GAL	(95)	-	27.2	7.30	14.1	C KB
KEMIRAKEMI	(140)	4.40 **	27.7	9.40	12.1	C KB
GROTHER_XRF	(149)	6.00 <	33.7 **	11.00 *	16.0	B KA
TEMAD	(175)	12.00 **	36.0 **	16.00 **	29.0 **	C KB
QLDNR&M	(210)	2.50	-	-	-	D D
AECASGRICS	(248)	2.91	27.2	7.78	13.1	A L
Deltares	(293)	3.65	28.1	9.43	15.0	C KB
LUARE	(314)	5.00 <	25.4	7.88	14.1	C KB
GLAGC	(327)	3.10	27.3	8.60	14.7	G CB
SPASL	(855)	22.12 **	56.2 **	34.28 **	37.4 **	G CB
RIDIK	(926)	3.30	27.0	8.70	14.5	C KB
CHEZL	(961)	3.20	25.0	8.30	14.0	G D
FBO-0611	(1025)	5.00 <	26.7	7.27	13.9	C KB
MASHA	(1029)	2.89	27.0	8.70	14.1	A L
ETRR	(1031)	3.01	25.2	18.50 **	9.6 **	L
CNES	(1033)	3.53	31.2	10.67 *	18.5 *	L
PA2010LAB	(1058)	3.90	25.8	8.30	14.0	C KB
NAPLAB1	(1068)	2.80	25.4	12.10 **	13.2	C KB
NPIAS	(1089)	3.34	30.1	9.57	16.1	L
ARIST	(1090)	-	-	-	14.2	\$ L
KFKI	(1091)	3.35	28.9	9.00	15.9	L
REAK	(1092)	3.42	29.6	9.30	16.0	A L
SACAV	(1095)	2.70	27.5	8.70	15.3	
CAMPU	(1096)	2.40	23.5	7.53	13.4	A L
ATCHI	(1098)	3.15	2.9 **	4.91 **	1.2 **	
TEFA	(1099)	3.11	29.7	9.31	16.0	\$ L
SYRAT	(1100)	3.10	27.8	7.25	12.5	
TECNUC	(1103)	2.26 *	22.2 *	7.66	11.8	L
INDIES	(1106)	3.64	27.4	9.12	15.3	A L
DESAR	(1108)	3.20	28.5	9.10	15.6	A L
NOUSSE	(1110)	3.30	27.9	8.72	15.2	L
LNIP	(1111)	2.73	26.6	8.42	14.2	A L

	Statistical Results			
NDA mean	3.137	27.32	8.640	14.56
NDA st dev	0.419	2.11	1.003	1.50
N	29	33	32	33
Median	3.200	27.30	8.710	14.50
MAD	0.290	1.50	0.705	1.07

B (mg/kg)						
GAL	(95)	16.0	60.0	64.0	79.0	J CB

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

Ba (mg/kg)						
LABTIUM	(16)	177	474	133	251	C KB
LAS	(42)	187	457	129	265	G CB
TCKI	(64)	103 **	505	69 **	237	B KA
HIDU	(82)	184	456	137	255	C KB
GAL	(95)	195	482	132	281	C KB
VICTORY	(123)	195	526	182 **	288	B KA
KEMIRAKEMI	(140)	189	498	141	292	C KB
GROTHER_XRF	(149)	187	487	122	252	B KA
TEMAD	(175)	187	486	149	296	C KB
QLDNR&M	(210)	204	-	-	-	D D
AECASGRICS	(248)	173	475	133	273	A L

	Summary Statistics			
NDA mean	188.3	476.0	134.1	276.1
NDA st dev	13.5	29.0	11.6	25.5
N	37	37	35	35

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Ba (mg/kg) (cont.)						
Deltares	(293)	206	528	155	271	C KB
LUARE	(314)	219 *	479	133	280	C KB
NFVGOE	(321)	190	500	130	280	G CB
GLAGC	(327)	197	484	125	275	G CB
ANAPBO	(448)	186	427	136	270	J CB
WBT	(866)	185	427	121	245	G CB
RIDIK	(926)	200	460	128	265	C KB
CHEZL	(961)	189	419	122	251	G D
FBO-0611	(1025)	180	498	127	287	C KB
MASHA	(1029)	178	490	135	281	A L
ETRR	(1031)	178	439	335 **	141 **	L
CNES	(1033)	212	461	143	295	L
NECSA	(1035)	158 *	455	153	213 *	
PA2010LAB	(1058)	184	497	130	281	C KB
NAPLAB1	(1068)	167	448	116	264	C KB
NPIAS	(1089)	203	485	147	294	L
KFKI	(1091)	225 *	578 **	156	301	L
REAK	(1092)	240 **	560 *	170 **	320	A L
SACAV	(1095)	160 *	460	170 **	230	
ATCHI	(1098)	-	444	-	-	
TEFA	(1099)	180	478	133	276	\$ L
SYRAT	(1100)	179	486	132	276	
TECNUC	(1103)	202	542 *	221 **	329 *	L
DESAR	(1108)	189	480	140	295	A L
YAZA	(1109)	197	435	-	-	A L
NOUSSE	(1110)	195	488	143	298	L
LNIP	(1111)	160 *	478	132	175 **	A L

	Statistical Results			
NDA mean	188.3	476.0	134.1	276.1
NDA st dev	13.5	29.0	11.6	25.5
N	37	37	35	35
Median	187.0	479.5	133.0	276.0
MAD	9.0	19.5	8.0	18.0

Be (mg/kg)						
GAL	(95)	0.410	3.30	0.820	2.15	G CB
VICTORY	(123)	0.330	2.06	0.690	1.51	G CB
QLDNR&M	(210)	1.500	-	-	-	D D
GLAGC	(327)	0.580	2.73	0.870	1.93	G CB
ANAPBO	(448)	0.440	2.95	0.860	2.06	J CB
CHEZL	(961)	0.500 <	2.40	0.700	1.70	G D

	Statistical Results (no NDA)			
N	5	5	5	5
Median	0.4400	2.730	0.8200	1.930
MAD	0.1100	0.330	0.0500	0.220

Bi (mg/kg)						
LABTIUM	(16)	30.00 <	30.00 <	30.00 <	30.00 <	C KB
KEMIRAKEMI	(140)	1.90	2.70	1.70	2.90	C KB
GROTHER_XRF	(149)	10.00 <	10.00 <	10.00 <	10.00 <	B KA
TEMAD	(175)	5.00	4.00	3.00	3.00	C KB
QLDNR&M	(210)	0.50	-	-	-	D D
ANAPBO	(448)	7.42	12.54	9.12	7.84	J CB
NAPLAB1	(1068)	1.00 <	1.00 <	1.00	1.00 <	C KB

	Statistical Results (no NDA)			
N	4	3	4	3
Median	3.450	4.000	2.350	3.000
MAD	2.250	1.300	1.000	0.100

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Br (mg/kg)						
HIDU	(82)	10.00 <	10.00 <	10.00 <	19.3	C KB
GAL	(95)	7.00	7.70	4.80	19.7	C KB
KEMIRAKEMI	(140)	6.50	7.20	3.90	17.8	C KB
TEMAD	(175)	10.00 *	10.00 **	9.00 **	14.0 *	C KB
AEC SAGRICS	(248)	5.52	6.76	4.24	16.6	
RIDIK	(926)	7.00	7.70	4.70	19.0	C KB
FBO-0611	(1025)	8.28	7.30	6.36 *	21.4	C KB
MASHA	(1029)	7.09	7.61	4.86	18.5	A L
ETRR	(1031)	7.19	6.51	23.00 **	5.3 **	L
CNES	(1033)	8.43	9.94 **	6.02	24.2 **	L
PA2010LAB	(1058)	8.80	7.70	5.20	18.9	C KB
NAPLAB1	(1068)	6.30	7.20	4.40	19.0	C KB
NPIAS	(1089)	8.10	8.50 *	5.20	21.2	L
KFKI	(1091)	4.82	4.64 **	2.88 *	12.1 **	L
REAK	(1092)	7.07	7.89	4.50	18.4	A L
SACAV	(1095)	6.10	7.30	4.60	19.0	
CAMPU	(1096)	5.72	22.54 **	26.40 **	34.1 **	A L
ATCHI	(1098)	5.94	7.41	3.25	16.6	
TEFA	(1099)	6.93	8.27	4.93	19.8	\$ L
SYRAT	(1100)	5.90	7.16	4.00	16.7	
INDIES	(1106)	6.76	7.51	4.69	17.9	A L
DESAR	(1108)	7.30	8.10	5.00	20.0	A L
YAZA	(1109)	8.55	-	-	-	A L
NOUSSE	(1110)	5.96	6.46	3.99	16.3	L
LNIP	(1111)	6.27	7.17	4.41	18.0	A L

	Statistical Results			
NDA mean	6.834	7.446	4.592	18.58
NDA st dev	1.318	0.520	0.714	1.76
N	24	23	23	24
Median	6.965	7.510	4.700	18.70
MAD	0.935	0.350	0.500	1.20

C - elementary (g/kg)						
LABTIUM	(16)	22.1	37.0	40.7	29.2	X Z
IUNG PUL	(32)	20.4	36.5	25.6 **	28.5	X Z
LAF	(37)	21.2	36.4	43.5 **	28.8	
RIOJALAB	(45)	21.6	35.9	40.7	28.5	X Z
POULAIN	(51)	2.6 **	3.5 **	4.0 **	2.8 **	X RC
POLASP	(96)	22.8	34.8	38.3 **	19.2 **	
LABVAL	(133)	22.5	37.2	41.4	29.0	X Z
CPH340XYC	(134)	23.2	34.0	40.2	28.1	X Z
LABORECOF	(194)	20.4	36.7	40.4	29.0	X N
FORTEST	(212)	24.7 *	35.6	41.1	28.2	X N
GSISMA	(214)	21.0	36.7	41.5	28.9	X Z
MERLEWOOD	(222)	20.6	36.0	40.2	28.4	
SLAF	(260)	22.2	32.5 *	40.5	27.0 *	X JA
ERSAFVGS CA	(307)	21.7	34.7	40.2	28.2	
OPBLab	(975)	21.3	35.8	39.8	28.0	X Z
FARE	(1028)	23.4	36.9	40.7	29.2	H Z

	Statistical Results			
NDA mean	21.79	36.10	40.57	28.58
NDA st dev	1.34	1.21	0.64	0.62
N	16	16	16	16
Median	21.63	35.95	40.46	28.43
MAD	0.95	0.87	0.46	0.45

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Ca (g/kg)						
LABTIUM	(16)	3.79	7.00	2.42	39.7	C KB
LAS	(42)	4.06	7.01	2.62	38.9	G CB
TCKI	(64)	4.00	7.00	2.00	40.0	B KA
HIDU	(82)	4.17	6.86	2.89	37.4	B KA
BKLABOR	(92)	3.71	7.06	2.37	39.3	B KA
GAL	(95)	-	7.06	-	39.2	B KA
POLASP	(96)	4.03	7.83 **	2.74	44.9 **	
VICTORY	(123)	4.37	7.33	2.92	39.1	B KA
KEMIRAKEMI	(140)	3.41	6.78	2.21	39.5	B KA
TYRKEY	(145)	3.19 *	5.32 **	2.06	3.7 **	D O
GROTHER_XRF	(149)	3.83	7.04	2.44	39.3	B KA
TEMAD	(175)	3.00 *	7.00	2.00	37.0	B KA
QLDNR&M	(210)	4.00	-	-	-	D CB
AECSAGRICS	(248)	3.45	6.60	2.99	41.9	
Deltares	(293)	4.32	6.86	2.98	38.5	D KA
ANALGEO	(300)	3.82	6.65	2.38	37.7	B KA
LUARE	(314)	8.19 **	6.23 *	2.50	39.5	C KB
NFVGEOE	(321)	3.67	6.69	2.34	37.9	G CB
GLAGC	(327)	3.80	7.00	2.44	37.7	G CB
ANAPBO	(448)	3.92	6.90	2.49	37.9	J CB
SPASL	(855)	3.26	5.30 **	2.40	32.3 **	G CB
WBT	(866)	4.00	7.08	2.43	42.2	B KA
RIDIK	(926)	3.70	6.60	2.30	39.0	C KB
CHEZL	(961)	3.70	6.70	2.40	37.4	B KA
FBO-0611	(1025)	7.15 **	6.92	3.10 *	38.3	
ETRR	(1031)	4.48 *	10.30 **	53.50 **	40.3	L
CNES	(1033)	3.44	6.00 **	1.80 *	35.3	L
CERT	(1034)	4.78 **	7.19	-	38.2	L
NECSA	(1035)	3.97	7.27	2.19	37.3	\$ L
PA2010LAB	(1058)	3.74	6.92	2.59	39.0	B KA
NAPLAB1	(1068)	3.56	6.96	2.43	39.3	B KA
NPIAS	(1089)	3.94	6.30 *	2.26	36.2	L
KFKI	(1091)	4.91 **	7.52 *	3.04 *	45.1 **	L
REAK	(1092)	-	-	-	44.2 **	L
TEFA	(1099)	3.57	6.92	2.54	39.3	\$ L
SYRAT	(1100)	3.87	6.79	3.07 *	41.0	
INDIES	(1106)	3.75	7.04	2.44	37.7	A L
NOUSSE	(1110)	4.51 *	13.50 **	6.83 **	44.4 **	L
LNIP	(1111)	3.91	20.90 **	9.73 **	26.3 **	A L

	Statistical Results			
NDA mean	3.829	6.933	2.446	38.75
NDA st dev	0.293	0.255	0.279	1.80
N	37	37	35	38
Median	3.870	6.960	2.440	38.99
MAD	0.190	0.180	0.180	1.28

Cd (mg/kg)						
LAS	(42)	0.400	0.760	0.129	0.227	G D
HIDU	(82)	0.800 <	0.700	0.800 <	0.800 <	C KB
POLASP	(96)	0.370	0.780	0.150	0.280	
VICTORY	(123)	0.370	0.740	0.140	0.220	G CB
KEMIRAKEMI	(140)	-	-	-	0.300	
TYRKEY	(145)	0.362	0.798	0.112	0.183	G BAC
AECSAGRICS	(248)	2.320 **	3.760 <	2.230 <	4.130 <	
Deltares	(293)	0.450	0.970	0.220 *	0.390 *	G D
LUARE	(314)	0.800 <	1.100 *	0.800 <	0.800 <	C KB
NFVGEOE	(321)	0.380	0.880	0.130	0.260	G BAF
GLAGC	(327)	0.410	0.830	0.130	0.260	G BAF
ANAPBO	(448)	0.550	0.560	0.110	0.040 **	J CB

	Summary Statistics			
NDA mean	0.3947	0.7855	0.1328	0.2552
NDA st dev	0.0788	0.1402	0.0325	0.0535
N	17	19	14	15

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Cd (mg/kg)	(cont.)					
SPASL	(855)	1.334 **	2.316 **	0.970 **	0.580 **	G CB
RIDIK	(926)	2.000 <	2.000 <	2.000 <	2.000 <	C KB
CHEZL	(961)	0.420	0.760	0.150	0.270	G D
FBO-0611	(1025)	0.600 <	0.870	0.600 <	0.600 <	C KB
NECSA	(1035)	13.100 **	27.800 **	8.150 **	16.600 **	
INSTN	(1037)	0.830 **	1.560 **	1.090 **	1.090 **	G BAE
PA2010LAB	(1058)	0.300 <	0.550	0.300 <	0.300 <	C KB
NAPLAB1	(1068)	0.600 *	0.900	0.500 <	0.500 <	C KB
LEC-NKUA	(1074)	0.374	0.782	0.158	0.256	G BAF
NPIAS	(1089)	2.600 <	4.000 <	2.800 <	3.900 <	L
TEFA	(1099)	0.500 <	3.000 <	1.100 <	3.100 <	\$ L
SYRAT	(1100)	2.040 **	3.760 <	2.230 <	4.130 <	
INDIES	(1106)	4.840 <	4.840 <	4.840 <	4.840 <	A L
DESAR	(1108)	0.300	0.650	0.100	0.250	GB AF

	Statistical Results			
NDA mean	0.3947	0.7855	0.1328	0.2552
NDA st dev	0.0788	0.1402	0.0325	0.0535
N	17	19	14	15
Median	0.4200	0.7980	0.1450	0.2600
MAD	0.0580	0.0980	0.0245	0.0400

Ce (mg/kg)						
LABTIUM	(16)	30.0 <	102.0	41.0	71.0	C KB
HIDU	(82)	10.7 *	83.0	32.0	48.6 *	C KB
GAL	(95)	16.0	97.0	39.0	64.0	J CB
VICTORY	(123)	17.8	122.0 *	44.4	75.3	D D
KEMIRAKEMI	(140)	18.5	105.0	41.1	64.2	C KB
GROTHE_XRF	(149)	50.0 <	95.0	50.0 <	76.5 *	B KA
TEMAD	(175)	9.0 *	112.0	54.0 **	68.0	
QLDNR&M	(210)	18.4	-	-	-	D D
AECSAGRICS	(248)	15.7	92.2	34.8	60.3	A L
FBO-0611	(1025)	20.0 <	94.4	38.3	62.8	C KB
MASHA	(1029)	17.2	103.0	42.7	66.4	A L
ETRR	(1031)	14.6	91.8	74.2 **	40.7 **	L
CNES	(1033)	15.5	104.2	41.9	69.2	L
NECSA	(1035)	18.3	104.0	37.6	63.4	
PA2010LAB	(1058)	18.4	92.4	37.9	60.1	C KB
NAPLAB1	(1068)	13.1	85.0	31.5	57.2	C KB
NPIAS	(1089)	16.8	106.0	42.0	68.1	L
KFKI	(1091)	18.2	100.0	40.0	67.5	L
REAK	(1092)	23.3 *	103.0	42.2	67.6	A L
SACAV	(1095)	14.3	86.7	33.8	57.3	
CAMPU	(1096)	-	73.6	-	-	A L
ATCHI	(1098)	15.6	15.8 **	35.6	52.6	
TEFA	(1099)	17.8	99.1	38.6	64.7	\$ L
SYRAT	(1100)	15.7	94.4	36.1	62.6	
IPCN	(1104)	15.1	109.1	41.3	69.3	L
INDIES	(1106)	18.5	86.7	35.1	59.6	A L
DESAR	(1108)	16.0	95.6	38.0	64.0	A L
YAZA	(1109)	-	130.6 *	50.2 *	-	A L
NOUSSE	(1110)	12.9	94.9	37.0	59.4	L
LNIP	(1111)	10.0 *	70.2 *	28.2 *	46.3 *	A L

	Statistical Results			
NDA mean	16.32	97.26	38.50	64.19
NDA st dev	2.61	11.86	4.65	6.11
N	25	29	27	27
Median	16.00	95.60	38.60	64.00
MAD	1.80	8.40	3.25	4.10

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Co (mg/kg)						
LAS	(42)	1.02	17.6	6.21	10.7	G CB
POLASP	(96)	1.39	18.5	6.99	11.7	
VICTORY	(123)	2.17 **	17.7	8.90 **	12.8	G CB
KEMIRAKEMI	(140)	1.00	25.2 **	9.00 **	16.2 **	C KB
TYRKEY	(145)	2.00 <	13.6 *	5.07 *	8.9 *	E AAC
TEMAD	(175)	3.00 <	14.0 *	3.00 **	10.0	C KB
QLDNR&M	(210)	2.10 **	-	-	-	D D
AECSAGRICS	(248)	1.16	17.6	6.32	11.4	A L
ANALGEO	(300)	5.00 <	17.0	7.00	14.0 *	C KB
NFVGOE	(321)	1.37	16.9	6.35	10.7	G CB
GLAGC	(327)	1.20	16.5	6.30	10.5	G CB
ANAPBO	(448)	2.57 **	24.1 **	11.01 **	16.2 **	J CB
SPASL	(855)	4.18 **	21.5 *	9.78 **	14.2 *	G CB
RIDIK	(926)	6.00 <	17.3	6.40	11.0	C KB
CHEZL	(961)	1.40	15.0	5.90	14.0 *	G D
LDAR02	(984)	2.30 **	23.3 **	8.80 **	15.0 **	J D
MASHA	(1029)	1.42	17.4	6.71	11.4	A L
ETRR	(1031)	1.22	15.9	13.70 **	6.7 **	L
CNES	(1033)	1.21	16.6	6.35	10.8	L
NECSA	(1035)	1.43	16.7	6.22	11.1	\$ L
PA2010LAB	(1058)	1.00 <	20.6 *	6.80	16.3 **	C KB
NAPLAB1	(1068)	1.00	18.2	6.10	10.1	C KB
NPIAS	(1089)	1.44	18.6	6.76	11.9	L
KFKI	(1091)	1.49	17.3	6.33	11.4	L
REAK	(1092)	1.23	17.8	6.80	11.2	A L
SACAV	(1095)	1.03	15.7	5.73	10.5	
CAMPU	(1096)	-	-	-	11.4	A L
ATCHI	(1098)	1.20	1.4 **	5.14 *	8.2 **	
TEFA	(1099)	1.26	18.0	6.59	11.8	\$ L
SYRAT	(1100)	1.23	18.4	6.39	11.9	
TECNUC	(1103)	1.17	18.0	6.20	11.2	L
IPCN	(1104)	1.47	18.7	6.49	11.7	L
INDIES	(1106)	2.02 **	16.7	6.49	11.5	A L
DESAR	(1108)	1.30	17.2	6.30	11.0	A L
YAZA	(1109)	-	19.0	7.67 *	-	A L
NOUSSE	(1110)	1.31	19.4	6.81	12.1	L
LNIP	(1111)	1.11	16.1	6.12	11.1	A L

	Statistical Results			
NDA mean	1.258	17.44	6.416	11.25
NDA st dev	0.191	1.44	0.492	0.98
N	30	35	35	35
Median	1.305	17.60	6.400	11.40
MAD	0.136	1.00	0.360	0.70

Cr (mg/kg)						
LABTIUM	(16)	51.0	119	60.0	83.0	C KB
LAS	(42)	44.6	115	65.8	82.5	G CB
TCKI	(64)	47.0 <	125	64.0	88.0	B KA
HIDU	(82)	47.3	120	55.0	90.0	C KB
GAL	(95)	44.0	126	68.0	84.0	C KB
POLASP	(96)	38.1	129	61.9	78.8	
VICTORY	(123)	41.0	164 **	53.0	81.0	B KA
KEMIRAKEMI	(140)	46.6	131	64.3	87.7	B KA
TYRKEY	(145)	33.9 *	88 **	41.2 **	77.1	E ABC
GROTHER_XRF	(149)	37.3	124	56.0	82.7	B KA
TEMAD	(175)	51.0	126	73.0	80.0	C KB
QLDNR&M	(210)	50.0	-	-	-	D D
AECSAGRICS	(248)	43.2	133	63.8	90.1	A L
Deltares	(293)	46.8	129	64.2	88.9	C KB

	Summary Statistics			
NDA mean	46.29	125.8	63.68	85.72
NDA st dev	6.14	8.1	5.53	6.01
N	46	47	47	46

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Cr (mg/kg)	(cont.)					
ANALGEO	(300)	85.0 **	122	61.0	81.0	C KB
LUARE	(314)	69.8 **	137	70.3	87.5	C KB
NFVGOE	(321)	49.0	124	63.7	82.9	G CB
GLAGC	(327)	47.0	122	63.8	81.0	G CB
ANAPBO	(448)	53.9	129	72.9	90.7	J CB
SPASL	(855)	39.0	109 *	55.0	71.7 *	G CB
WBT	(866)	75.3 **	178 **	102.6 **	123.2 **	B KA
RIDIK	(926)	38.0	123	60.0	83.0	C KB
CHEZL	(961)	39.0	105 *	57.0	72.0 *	G D
FBO-0611	(1025)	37.8	127	57.9	91.3	C KB
MASHA	(1029)	48.8	117	61.8	81.4	A L
ETRR	(1031)	43.8	127	111.0 **	70.8 *	L
CNES	(1033)	52.3	139	73.3	100.4 *	L
CERT	(1034)	48.6	114	61.2	84.5	A L
NECSA	(1035)	54.1	128	66.1	90.9	\$ L
INSTN	(1037)	53.1	91 **	55.6	70.6 *	G Z
PA2010LAB	(1058)	63.2 *	132	66.6	90.3	C KB
NAPLAB1	(1068)	50.8	118	56.9	83.4	C KB
LEC-NKUA	(1074)	45.5	115	63.3	81.8	G AAA
NPIAS	(1089)	57.4	140	72.8	95.2	L
KFKI	(1091)	52.1	130	68.5	94.0	L
REAK	(1092)	49.3	120	63.2	82.0	A L
SACAV	(1095)	46.4	119	63.7	86.7	
CAMPU	(1096)	15.7 **	59 **	35.4 **	37.7 **	A L
ATCHI	(1098)	47.8	130	65.0	81.6	
TEFA	(1099)	44.8	134	67.5	94.2	\$ L
SYRAT	(1100)	44.1	130	64.4	88.2	
TECNUC	(1103)	37.9	129	62.1	87.2	L
IPCN	(1104)	47.0	142	71.7	92.0	L
INDIES	(1106)	60.2 *	129	66.2	92.3	A L
DESAR	(1108)	45.0	128	68.0	90.3	A L
YAZA	(1109)	-	59 **	144.0 **	-	A L
NOUSSE	(1110)	44.4	128	63.7	87.5	L
LNIP	(1111)	40.9	117	62.3	85.5	A L

	Statistical Results			
NDA mean	46.29	125.8	63.68	85.72
NDA st dev	6.14	8.1	5.53	6.01
N	46	47	47	46
Median	46.87	126.0	63.80	85.00
MAD	4.13	5.6	3.80	4.00

Cs (mg/kg)						
KEMIRAKEMI	(140)	-	5.0 **	0.10 **	8.80	C KB
TEMAD	(175)	4.000 **	17.0 **	8.00 **	10.00	
MASHA	(1029)	0.980	10.9	4.90	8.93	A L
ETRR	(1031)	-	10.0	10.90 **	5.20 **	L
CNES	(1033)	1.070	12.2	5.32	10.29	L
NECSA	(1035)	0.982	11.3	4.96	9.45	
PA2010LAB	(1058)	2.300 **	11.4	4.70	8.60	C KB
NAPLAB1	(1068)	1.900 **	9.6	5.10	8.90	C KB
NPIAS	(1089)	1.060	12.3	5.33	9.94	L
KFKI	(1091)	1.060	11.9	5.43	10.20	L
REAK	(1092)	0.900	10.7	5.00	9.20	A L
SACAV	(1095)	0.800	8.7	4.00 *	8.00	
CAMPU	(1096)	-	9.3	-	7.90	A L
ATCHI	(1098)	0.810	8.6	4.16	9.64	
TEFA	(1099)	0.980	11.9	5.13	9.85	\$ L
SYRAT	(1100)	0.890	10.7	4.68	8.36	
TECNUC	(1103)	0.100 **	12.1	5.07	9.41	L

	Summary Statistics				
NDA mean	0.9795	10.93	4.962	9.228	
NDA st dev	0.1013	1.56	0.446	0.781	
N	19	22	21	22	(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Cs (mg/kg)	(cont.)					
IPCN	(1104)	1.020	12.3	5.19	9.47	L
INDIES	(1106)	1.050	10.0	4.47	8.49	A L
DESAR	(1108)	1.000	11.4	5.00	9.50	A L
NOUSSE	(1110)	1.010	11.6	5.15	9.34	L
LNIP	(1111)	0.846	9.9	4.44	8.77	A L

	Statistical Results			
NDA mean	0.9795	10.93	4.962	9.228
NDA st dev	0.1013	1.56	0.446	0.781
N	19	22	21	22
Median	1.0000	11.10	5.000	9.270
MAD	0.0700	1.13	0.320	0.540

Cu (mg/kg)						
LABTIUM	(16)	20.00 <	38.0	20.00 <	20.0 <	C KB
LAS	(42)	5.26	38.0	5.75	14.9	G CB
HIDU	(82)	8.30	35.5	7.20	18.0	C KB
GAL	(95)	-	35.0	-	14.0	C KB
POLASP	(96)	5.95	40.0	6.79	15.8	
VICTORY	(123)	5.01	31.9	5.26	12.9	G CB
KEMIRAKEMI	(140)	6.70	31.3	6.00	12.5	C KB
TYRKEY	(145)	8.52	33.1	8.87	15.2	E ABA
TEMAD	(175)	10.00 *	53.0 **	11.00 *	25.0 **	C KB
QLDNR&M	(210)	47.50 **	-	-	-	D D
AEC SAGRICS	(248)	122.00 <	281.0 <	237.00 <	289.0 <	
Deltares	(293)	9.98 *	46.5 *	10.37 *	20.1 *	G D
LUARE	(314)	7.92	37.6	6.62	15.5	C KB
NFVGOE	(321)	3.69	38.0	5.55	14.7	G CB
GLAGC	(327)	5.60	37.8	4.70	16.1	G CB
ANAPBO	(448)	7.14	40.7	7.80	16.1	J CB
SPASL	(855)	15.70 **	43.1	21.47 **	22.7 **	G CB
RIDIK	(926)	6.10	36.3	6.40	17.0	C KB
CHEZL	(961)	5.00	32.0	5.50	14.0	G D
FBO-0611	(1025)	10.00 <	35.5	10.00 <	14.9	C KB
INSTN	(1037)	7.01	35.3	7.75	16.4	G BAE
PA2010LAB	(1058)	5.50	39.6	6.70	16.2	C KB
NAPLAB1	(1068)	5.40	35.7	5.80	13.3	C KB
LEC-NKUA	(1074)	3.55	31.9	5.13	12.3	G AAA
NPIAS	(1089)	40.00 <	70.0 <	36.00 <	90.0 <	L
SYRAT	(1100)	122.00 <	281.0 <	237.00 <	289.0 <	
INDIES	(1106)	-	31.5	-	-	C KB
DESAR	(1108)	5.80	32.0	7.11	15.6	G AA

	Statistical Results			
NDA mean	6.120	35.97	6.419	15.15
NDA st dev	1.660	4.54	1.537	1.73
N	21	24	20	22
Median	6.100	36.00	6.660	15.55
MAD	1.090	3.25	1.100	1.18

F (mg/kg)						
TCKI	(64)	59 <	669	799	591	Z H
TYRKEY	(145)	100 <	708	830	598	D H
TEMAD	(175)	775	602	1328	1000	C KB

	Statistical Results (no NDA)			
N	1	3	3	3
Median	775.0	669.0	830.0	598.0
MAD	-	39.0	31.0	7.0

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Fe (g/kg)						
LABTIUM	(16)	4.97	51.3	20.0	34.6	C KB
LAS	(42)	5.93	59.2 *	22.5	37.3	G CB
TCKI	(64)	5.00	53.0	21.0	35.0	B KA
HIDU	(82)	5.56	52.4	21.0	34.9	C KB
BKLABOR	(92)	5.24	52.9	20.3	34.8	B KA
GAL	(95)	5.50	55.3	20.9	35.1	B KA
POLASP	(96)	5.33	55.5	22.0	36.1	
VICTORY	(123)	5.84	54.3	22.5	35.4	B KA
KEMIRAKEMI	(140)	5.45	55.3	21.6	36.4	B KA
TYRKEY	(145)	5.28	49.7	19.0	32.6	D O
GROTHER_XRF	(149)	5.24	53.4	20.7	35.1	B KA
TEMAD	(175)	5.00	56.0	22.0	36.0	B KA
QLDNR&M	(210)	6.00	-	-	-	D CB
AECSAGRICS	(248)	4.98	52.6	19.8	34.7	A L
Deltares	(293)	5.20	54.8	21.3	35.5	D KA
ANALGEO	(300)	5.50	52.6	20.8	35.4	B KA
LUARE	(314)	7.74 **	53.7	22.9 *	37.4	C KB
NFVGOE	(321)	5.40	52.9	20.8	34.8	G CB
GLAGC	(327)	5.50	49.0	20.2	33.3	G CB
ANAPBO	(448)	5.62	51.7	21.0	34.8	J CB
SPASL	(855)	4.56	52.8	17.6 **	29.4 **	G CB
WBT	(866)	6.57 *	60.6 **	25.0 **	40.4 **	B KA
RIDIK	(926)	5.10	52.0	21.0	34.0	C KB
CHEZL	(961)	5.00	50.5	20.0	34.3	B KA
FBO-0611	(1025)	5.44	53.5	22.1	35.6	C KB
MASHA	(1029)	5.74	52.6	21.2	34.6	A L
ETRR	(1031)	5.39	54.5	44.5 **	23.3 **	L
CNES	(1033)	5.79	53.3	21.2	36.9	L
CERT	(1034)	5.97	49.7	20.4	34.6	A L
NECSA	(1035)	5.44	42.8 **	19.3	32.5 *	\$ L
INSTN	(1037)	4.34	48.3 *	18.3 *	32.7	G ABA
PA2010LAB	(1058)	5.81	54.1	20.5	35.4	B KA
NAPLAB1	(1068)	5.25	53.5	20.3	35.2	B KA
LEC-NKUA	(1074)	5.14	49.8	20.2	34.1	G AAA
NPIAS	(1089)	5.77	54.6	21.3	35.8	L
KFKI	(1091)	6.27	52.2	20.9	36.1	L
REAK	(1092)	6.30	58.6 *	22.7 *	38.2 *	A L
SACAV	(1095)	4.60	48.2 *	18.7 *	33.3	
CAMPU	(1096)	-	40.0 **	15.8 **	25.8 **	A L
ATCHI	(1098)	4.12 *	4.8 **	1.8 **	3.8 **	
TEFA	(1099)	5.31	54.9	21.5	36.4	\$ L
SYRAT	(1100)	5.23	54.2	20.7	35.5	
TECNUC	(1103)	4.81	53.8	20.2	33.8	L
IPCN	(1104)	5.40	55.9	21.3	35.3	L
INDIES	(1106)	6.65 *	52.4	20.5	36.1	A L
DESAR	(1108)	5.20	51.5	20.3	35.0	A L
YAZA	(1109)	10.05 **	60.0 *	26.1 **	-	A L
NOUSSE	(1110)	5.32	54.4	20.8	35.1	L
LNIP	(1111)	4.24 *	45.5 **	19.1	31.6 *	A L

	Statistical Results			
NDA mean	5.371	53.21	20.79	35.12
NDA st dev	0.516	2.31	0.91	1.26
N	48	48	48	47
Median	5.395	52.97	20.80	35.00
MAD	0.360	1.58	0.61	0.88

Ga (mg/kg)						
LABTIUM	(16)	20.00 <	22.0	20.0 <	20.0 <	C KB
HIDU	(82)	10.00 <	21.2	10.4	14.7	C KB

	Summary Statistics			
NDA mean	3.522	22.96	10.17	14.28
NDA st dev	0.842	1.45	1.01	0.56
N	14	18	17	17

(cont.)

ISE 2012.1 - Real totals

Sample	997	863	865	962	MIC
Ga (mg/kg) (cont.)					
GAL (95)	-	23.0	10.0	15.0	C KB
VICTORY (123)	2.78	26.5 *	11.9	13.0 *	G CB
KEMIRAKEMI (140)	4.00	22.5	10.3	14.4	C KB
GROTHER_XRF (149)	8.33 **	24.0	13.3 **	17.0 **	B KA
TEMAD (175)	8.00 **	24.0	11.0	14.0	C KB
Deltares (293)	3.94	22.6	10.5	14.6	C KB
ANALGEO (300)	3.00	24.0	9.0	14.0	C KB
GLAGC (327)	5.00 <	23.0	11.0	14.0	C KB
RIDIK (926)	3.90	22.5	10.4	14.1	C KB
PA2010LAB (1058)	4.00	23.1	10.4	14.3	C KB
NAPLAB1 (1068)	3.00	21.0	8.7	12.6 **	C KB
NPIAS (1089)	30.00 <	50.0 <	40.0 <	63.0 <	L
SACAV (1095)	2.90	25.1	9.3	18.1 **	
CAMPU (1096)	4.22	17.4 **	9.4	14.4	A L
TEFA (1099)	3.55	26.1 *	11.5	16.7 **	\$ L
INDIES (1106)	3.93	22.1	9.4	13.8	A L
NOUSSE (1110)	2.88	22.7	9.7	15.2	L

	Statistical Results			
NDA mean	3.522	22.96	10.17	14.28
NDA st dev	0.842	1.45	1.01	0.56
N	14	18	17	17
Median	3.915	22.85	10.40	14.38
MAD	0.640	1.00	0.69	0.38

Ge (mg/kg)					
KEMIRAKEMI (140)	0.800	2.30	1.20	1.30	C KB
TEMAD (175)	3.000 <	3.00 <	3.00 <	3.00 <	
NAPLAB1 (1068)	1.000 <	1.10	1.00	1.10	C KB

	Statistical Results (no NDA)			
N	1	2	2	2
Median	0.8000	1.700	1.100	1.200
MAD	-	0.600	0.100	0.100

Hg (µg/kg)					
ATVC (7)	53.5	90.2	76.9	80.3	X E
LABTIUM (16)	49.4	85.2	73.5	89.6	
IUNGPUL (32)	50.3	90.8	76.6	89.1	X Z
LAS (42)	54.6	88.7	73.4	90.9	X G
LRSCONTROL (63)	56.5	93.6	78.2	90.3	X E
GAL (95)	55.7	90.1	74.2	91.7	\$ Z
POLASP (96)	52.0	82.0	69.0	81.0	
VICTORY (123)	55.7	82.1	72.2	87.0	X G
TYRKEY (145)	52.8	52.7 **	84.2 *	98.7	\$ Z
RISWC (174)	54.0	81.0	70.0	74.0 *	X Z
AECSAGRICS (248)	430.0 **	5010.0 **	1040.0 **	540.0 **	
ANALGEO (300)	57.0	91.0	77.0	88.0	\$ Z
RIDIK (926)	1000.0 <	1000.0 <	1000.0 <	1000.0 <	C KB
CHEZL (961)	52.2	89.0	75.7	94.0	\$ Z
NPIAS (1089)	260.0 <	590.0 <	380.0 <	520.0 <	L
ATCHI (1098)	-	301.0 **	78.0	15.7 **	
TEFA (1099)	75.0 <	272.0 <	100.0 <	239.0 <	\$ L
SYRAT (1100)	317.0 **	700.0 <	790.0 **	1604.0 **	

	Statistical Results			
NDA mean	53.77	87.95	75.08	88.95
NDA st dev	2.97	5.68	4.29	6.30
N	14	14	15	15
Median	54.30	89.55	76.60	89.60
MAD	2.14	4.18	3.10	4.40

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
I (mg/kg)						
HIDU	(82)	10.00 <	10.00 <	10.00 <	13.1	C KB
KEMIRAKEMI	(140)	5.20	5.20	4.50	17.1	
AECAGRICS	(248)	7.00 <	16.00 <	14.00 <	16.0 <	
PA2010LAB	(1058)	4.00 <	4.00 <	4.00 <	13.3	C KB
NAPLAB1	(1068)	0.80	3.00	2.00	11.4	C KB
NPIAS	(1089)	1.30 <	2.50 <	3.40	14.5	L
SYRAT	(1100)	7.00 <	16.00 <	13.00 <	16.0 <	
DESAR	(1108)	-	-	-	17.0	A L
LNIP	(1111)	-	-	4.94	18.3	A L

	Statistical Results (no NDA)			
N	2	2	4	7
Median	3.000	4.100	3.950	14.50
MAD	2.200	1.100	0.770	2.50

Sample		997	863	865	962	MIC
K (mg/kg)						
LABTIUM	(16)	7389	19260	7139	18930	C KB
LAS	(42)	8310	21120	7730	20380	G CB
TCKI	(64)	7634	20580	7468	19750	B KA
HIDU	(82)	8460	20100	8180	20230	C KB
BKLABOR	(92)	7893	20650	7314	19780	B KA
GAL	(95)	7180	20530	7006	19840	G CB
POLASP	(96)	8672	23160 **	8732 *	20 **	
VICTORY	(123)	7590	20400	7940	19900	B KA
KEMIRAKEMI	(140)	8010	20800	7660	19900	B KA
TYRKEY	(145)	8426	20300	7856	20110	E CA
GROTHER_XRF	(149)	7751	20070	7303	19260	B KA
PLATINA222	(172)	7332	18580	7145	18690	E CA
TEMAD	(175)	7746	20250	7404	19410	B KA
QLDNR&M	(210)	8000	-	-	-	D CB
AECAGRICS	(248)	7566	18830	6728	19240	
Deltares	(293)	7483	19220	7218	18930	D KA
ANALGEO	(300)	8090	19930	7559	19430	B KA
LUARE	(314)	7890	18100	7830	18400	C KB
NFVGOE	(321)	8060	20570	7500	19850	G CB
GLAGC	(327)	7730	20180	7200	19600	G CB
SPASL	(855)	6754 *	16730 *	6464	16050 **	G CB
WBT	(866)	11456 **	26980 **	10294 **	26560 **	B KA
RIDIK	(926)	7950	19800	7370	19100	C KB
CHEZL	(961)	7635	19360	7219	19120	B KA
FBO-0611	(1025)	7312	18780	8108	19230	
ETRR	(1031)	7590	19300	7300	19700	L
CNES	(1033)	8628	21760	8207	21090 *	L
CERT	(1034)	8277	19620	7786	19250	A L
NECSA	(1035)	7404	17780	6661	17600 *	\$ L
PA2010LAB	(1058)	7825	20610	7499	19810	B KA
NAPLAB1	(1068)	7900	206650 **	7470	19820	B KA
NPIAS	(1089)	8635	20450	8056	19490	L
ARIST	(1090)	8039	19970	7443	26640 **	\$ L
KFKI	(1091)	9096 *	22060 *	8138	20450	L
REAK	(1092)	7900	17000 *	6300 *	16800 **	A L
SACAV	(1095)	7490	19500	7320	19400	
CAMPU	(1096)	6268 **	10580 **	6519	16440 **	A L
ATCHI	(1098)	9 **	20 **	3 **	10 **	
TEFA	(1099)	8060	20830	7532	20050	\$ L
SYRAT	(1100)	7566	18830	6728	19240	
IPCN	(1104)	5435 **	16030 **	6639	14400 **	L
INDIES	(1106)	8984 *	19770	7416	20040	A L
DESAR	(1108)	7411	18250	6850	18000 *	A L
NOUSSE	(1110)	7905	19430	7371	19060	L

	Summary Statistics			
NDA mean	7814	19851	7420	19516
NDA st dev	492	1077	515	689
N	45	44	44	44

(cont.)

ISE 2012.1 - Real totals

Sample	997	863	865	962	MIC
K (mg/kg) (cont.)					
LNIP (1111)	6850	19200	7880	18500	A L
	===== Statistical Results =====				
NDA mean	7814	19851	7420	19516	
NDA st dev	492	1077	515	689	
N	45	44	44	44	
Median	7825	19864	7410	19403	
MAD	335	730	348	485	
	=====				
La (mg/kg)					
LABTIUM (16)	30.00 <	31.0 **	30.0 <	34.0	C KB
HIDU (82)	9.00	43.5	19.5	20.9 **	C KB
GAL (95)	9.30	48.0	21.0	33.0	J CB
VICTORY (123)	8.93	59.3 **	22.4	37.2 *	D D
KEMIRAKEMI (140)	18.00 **	42.9	18.8	34.6	C KB
TEMAD (175)	12.00 *	65.0 **	28.0 **	29.0	C KB
QLDNR&M (210)	9.50	-	-	-	D D
AEC SAGRICS (248)	8.66	47.0	17.2	29.8	A L
Deltares (293)	7.77	48.0	19.7	30.6	C KB
FBO-0611 (1025)	10.30	50.0	21.9	33.8	C KB
MASHA (1029)	8.22	50.9	20.9	32.1	A L
ETRR (1031)	7.52	45.9	38.3 **	22.1 **	L
CNES (1033)	10.06	58.6 *	24.4 *	39.3 **	L
CERT (1034)	9.79	51.4	21.3	34.0	A L
PA2010LAB (1058)	9.20	50.0	20.1	33.3	C KB
NAPLAB1 (1068)	6.40	47.0	17.0	30.7	C KB
NPIAS (1089)	8.14	53.1	20.8	33.8	L
ARIST (1090)	-	50.6	16.2 *	32.5	\$ L
KFKI (1091)	9.13	49.7	19.8	32.8	L
REAK (1092)	12.30 *	49.5	20.0	31.8	A L
SACAV (1095)	7.40	44.7	18.1	30.1	
CAMPU (1096)	7.55	36.1 **	15.6 *	26.1 *	A L
ATCHI (1098)	6.76	41.4 *	17.1	27.4 *	
TEFA (1099)	9.36	49.5	19.7	32.0	\$ L
SYRAT (1100)	8.66	47.0	17.3	29.8	
TECNUC (1103)	8.19	53.1	20.7	32.7	L
IPCN (1104)	7.61	55.1	22.0	34.3	L
INDIES (1106)	10.24	51.3	20.9	34.5	A L
DESAR (1108)	8.20	48.0	19.0	31.5	A L
YAZA (1109)	8.60	5.2 **	20.6	33.2	A L
NOUSSE (1110)	7.60	49.3	20.1	32.5	L
LNIP (1111)	7.17	47.2	19.6	31.7	A L
	===== Statistical Results =====				
NDA mean	8.553	48.90	19.94	32.43	
NDA st dev	1.377	3.43	1.73	2.21	
N	30	31	30	31	
Median	8.660	49.30	20.05	32.50	
MAD	0.970	2.30	1.13	1.53	
	=====				
Li (mg/kg)					
LAS (42)	13.2	86.1	49.6	64.6	G CA
GAL (95)	11.5	70.0	41.0	51.0	G CB
VICTORY (123)	7.6	64.2	35.3	47.9	G CB
Deltares (293)	10.6	73.6	42.4	51.4	G D
GLAGC (327)	10.8	74.3	41.5	53.1	G CB
	===== Statistical Results (no NDA) =====				
N	5	5	5	5	
Median	10.80	73.59	41.50	51.41	
MAD	0.70	3.59	0.85	1.69	
	=====				

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Mg (mg/kg)						
LABTIUM	(16)	651	8140	4220	11800	C KB
LAS	(42)	681	8380	4320	11720	G CB
TCKI	(64)	300 < *	8340	3960	11520	B KA
HIDU	(82)	2079 **	9032 *	5109 **	12630 *	B KA
BKLABOR	(92)	549	7931	3956	11150	B KA
GAL	(95)	-	8140	3860	10900	B KA
POLASP	(96)	634	8476	4400	11940	
VICTORY	(123)	428	9030 *	3890	11900	B KA
KEMIRAKEMI	(140)	520	7550	3820	11200	B KA
TYRKEY	(145)	1360 **	8390	4940 *	11150	D AAA
GROTHER_XRF	(149)	602	7956	3994	11180	B KA
TEMAD	(175)	672	7698	4105	11270	B KA
QLDNR&M	(210)	600	-	-	-	D CB
AECSAGRICS	(248)	300 < *	11698 **	5869 **	11940	
Deltares	(293)	612	8318	4059	11510	G CB
ANALGEO	(300)	474	7537	3787	10850	B KA
LUARE	(314)	2000 <	7720	4630	12500 *	C KB
NFVGOE	(321)	700	7820	3940	11010	G CB
GLAGC	(327)	613	7350	3840	10310	G CB
ANAPBO	(448)	649	7638	4050	10870	J CB
SPASL	(855)	548	6586 *	3368	9370 **	G CB
WBT	(866)	724	8383	4282	12120	B KA
RIDIK	(926)	647	6500 *	3950	11000	C KB
CHEZL	(961)	1039 **	7481	3632	10810	B KA
ETRR	(1031)	-	7130	4770 *	10400	L
CNES	(1033)	9575 **	56749 **	20482 **	47810 **	L
PA2010LAB	(1058)	2395 **	7828	3795	11320	B KA
NAPLAB1	(1068)	300 < *	7800	3710	11010	B KA
KFKI	(1091)	3108 **	20493 **	9579 **	18810 **	L
SYRAT	(1100)	300 < *	11630 **	5427 **	11020	
INDIES	(1106)	2630 **	10830 **	8470 **	10430	C KB
DESAR	(1108)	-	7790	4035	10400	A L
NOUSSE	(1110)	849	8124	3966	10700	L
LNIP	(1111)	-	-	-	11320	A L

	Statistical Results			
NDA mean	621.2	7932	3993	11170
NDA st dev	135.0	544	341	560
N	25	32	32	33
Median	651.0	8040	4043	11178
MAD	102.0	376	243	368

Mn (mg/kg)						
LABTIUM	(16)	170 **	403	341	937	C KB
LAS	(42)	266	475	435	1015	G CB
TCKI	(64)	252	483	418	973	B KA
HIDU	(82)	256	451	406	995	C KB
BKLABOR	(92)	244	476	396	1011	B KA
GAL	(95)	250	445	366	925	B KA
POLASP	(96)	242	496	427	1033	
VICTORY	(123)	201 *	480	431	989	B KA
KEMIRAKEMI	(140)	317 **	496	448	1080	C KB
TYRKEY	(145)	234	406	364	1001	D AAA
GROTHER_XRF	(149)	232	493	396	1058	B KA
TEMAD	(175)	221	449	376	980	B KA
QLDNR&M	(210)	257	-	-	-	D D
AECSAGRICS	(248)	234	485	429	1021	A L
Deltares	(293)	259	459	447	1045	D KA
ANALGEO	(300)	250	463	400	977	B KA
LUARE	(314)	342 **	447	407	971	C KB

	Summary Statistics			
NDA mean	245.1	461.4	399.8	996.6
NDA st dev	21.1	35.9	34.8	46.2
N	44	43	42	41

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Mn (mg/kg)	(cont.)					
NFVG0E	(321)	240	450	390	970	G CB
GLAGC	(327)	256	462	403	958	G CB
ANAPBO	(448)	256	472	412	1014	J CB
SPASL	(855)	199 *	380 *	350	778 **	G CB
WBT	(866)	2633 **	3872 **	3020 **	3872 **	B KA
RIDIK	(926)	244	455	403	940	C KB
CHEZL	(961)	227	472	412	1003	B KA
FBO-0611	(1025)	274	455	391	979	
ETRR	(1031)	205	393	313 *	834 **	L
CNES	(1033)	309 **	613 **	432	1228 **	L
CERT	(1034)	257	454	378	998	L
NECSA	(1035)	280	490	413	1052	\$ L
INSTN	(1037)	212	398	332	895 *	G Z
PA2010LAB	(1058)	284	493	418	1037	C KB
NAPLAB1	(1068)	240	460	390	1050	B KA
LEC-NKUA	(1074)	245	424	373	977	G AAA
NPIAS	(1089)	256	497	409	1046	L
ARIST	(1090)	203	422	369	1147 **	\$ L
KFKI	(1091)	384 **	554 *	522 **	1281 **	L
REAK	(1092)	262	390	450	1600 **	A L
CAMPU	(1096)	163 **	384 *	33 **	-	A L
SYRAT	(1100)	240	487	423	982	
INDIES	(1106)	253	482	386	1016	A L
DESAR	(1108)	235	438	372	935	A L
YAZA	(1109)	415 **	1473 **	-	-	A L
NOUSSE	(1110)	241	522	379	1002	L
LNIP	(1111)	211	440	392	978	A L

	Statistical Results			
NDA mean	245.1	461.4	399.8	996.6
NDA st dev	21.1	35.9	34.8	46.2
N	44	43	42	41
Median	247.5	462.0	401.5	1001.0
MAD	14.0	24.0	24.5	32.0

Mo (mg/kg)						
LABTIUM	(16)	10.000 <	10.00 <	10.00 <	10.00 <	C KB
LAS	(42)	0.647	0.96	1.08	0.57	G D
HIDU	(82)	2.000 <	2.00 <	2.00 <	2.00 <	C KB
VICTORY	(123)	1.190	1.72	1.88	1.15	D D
KEMIRAKEMI	(140)	2.700 **	2.80	3.40	3.20 *	C KB
GROTHER_XRF	(149)	5.000 <	5.00 <	5.00 <	5.00 <	B KA
TEMAD	(175)	3.000 <	3.00 <	3.00 <	3.00 <	C KB
QLDNR&M	(210)	2.000 **	-	-	-	D D
AECAGRICS	(248)	0.830	2.46	2.66	1.76	
Deltares	(293)	0.730	1.16	1.20	0.71	G D
GLAGC	(327)	0.700	0.70	0.90	0.40	G CB
ANAPBO	(448)	0.510	0.41	0.70	0.20	J CB
SPASL	(855)	1.739 *	3.17	3.68	3.39 *	G CB
RIDIK	(926)	2.000 <	2.00 <	2.00 <	2.00 <	C KB
CHEZL	(961)	1.000 <	1.00 <	1.00 <	1.00 <	G D
LDAR02	(984)	2.000 <	2.00 <	2.00 <	2.00 <	J D
NAPLAB1	(1068)	1.000 <	1.00 <	1.10	1.00 <	C KB
NPIAS	(1089)	2.900 <	10.00 <	10.00 <	10.00 <	L
KFKI	(1091)	2.170 **	7.16 **	5.20 *	4.96 **	L
TEFA	(1099)	0.580	1.25 <	1.12	1.16 <	\$ L
SYRAT	(1100)	0.940	3.07	2.66	1.70	
NOUSSE	(1110)	0.570	2.21	1.82	1.22	L

	Statistical Results			
NDA mean	0.7590	1.890	1.754	1.124
NDA st dev	0.3682	1.330	1.227	0.977
N	13	11	13	11
Median	0.8300	2.210	1.820	1.220
MAD	0.2600	0.955	0.840	0.647

ISE 2012.1 - Real totals

Sample	997	863	865	962	MIC
N - elementary (g/kg)					
OOSTERBEEK (4)	1.85	4.21	3.34	1.84	X RC
ATVC (7)	1.95	4.11	3.47	1.82	X JA
KUCHING (12)	1.30 **	2.80 **	2.40 **	1.40 **	
MONICA (24)	1.84	3.83	3.23	1.75	X JA
IUNGPUL (32)	1.82	4.24	3.43	1.89	X Z
LAF (37)	1.70	3.63	2.93 *	1.60	
BELFAST (39)	2.05	4.20	3.39	1.86	X Z
RIOJALAB (45)	1.90	4.22	3.62	2.02	X Z
POULAIN (51)	0.22 **	0.39 **	0.32 **	0.18 **	X RC
EXTAQS (52)	1.98	3.58	3.43	1.71	
LRSCONTROL (63)	1.95	4.15	3.34	1.82	X Z
SAINTE-FOY (80)	1.92	4.25	3.42	1.86	X Z
GAL (95)	2.06	4.01	2.99	1.90	J Z
POLASP (96)	1.96	4.50	3.60	1.82	
974BRET (99)	1.57 *	3.57	3.08	1.23 **	X RC
LABVAL (133)	1.80	3.84	3.29	1.90	X Z
CPH340XYC (134)	1.98	4.00	3.30	1.81	X Z
XGCALAFIGA (135)	1.89	4.20	3.54	1.99	X Z
NSSL (167)	3.00 **	4.60	4.00 **	2.40 **	
RISWC (174)	1.87	3.45	3.03	1.78	L E
LABORECOF (194)	1.78	4.02	3.58	1.94	X Z
FORTEST (212)	2.00	3.71	3.06	1.71	X N
GSISMA (214)	1.89	4.29	3.75 *	2.05	X Z
MERLEWOOD (222)	1.82	4.07	3.41	1.89	\$ Z
ARCWSG (238)	1.87	4.22	3.40	1.86	Z E
AECsAGRICS (248)	1.69	3.91	3.48	1.83	
PIEST-RIPP (256)	1.75	3.89	3.15	1.59	X Z
SLAF (260)	1.88	3.42	3.21	1.47 *	X JA
IGEOLUNAM (273)	1.94	4.01	3.42	1.80	X RC
SeqBioMpl (274)	1.98	3.55	3.18	1.92	X RC
MUMPFROG (275)	1.98	4.08	3.36	1.89	X Z
RALA (299)	1.84	3.71	3.26	1.72	X
ERSAFVGSCA (307)	2.02	4.12	3.52	2.01	
HLVAKASSEL (313)	22.50 **	3.87	3.41	1.95	
NFVGoe (321)	1.88	3.91	3.36	1.80	X JA
FVABW (322)	1.88	3.88	3.37	1.75	X RC
GLAGC (327)	1.77	3.63	3.20	1.69	X RC
IRRI (843)	2.00	3.89	3.23	1.73	X Z
SPASL (855)	1.89	4.13	3.32	1.80	X
LSF (895)	2.00	3.40	3.20	1.85	
OPBLab (975)	1.78	4.06	3.35	1.69	X Z
ABER (1001)	2.10	4.50	3.88 *	2.28 **	X Z
FARE (1028)	2.07	4.18	3.39	1.92	H Z
LASPEE (1036)	3.00 **	3.57	3.75 *	1.88	Z E
NALARAC (1076)	1.30 **	1.20 **	1.10 **	1.15 **	Z O

	Statistical Results			
NDA mean	1.903	3.983	3.352	1.834
NDA st dev	0.127	0.313	0.191	0.128
N	45	45	45	45
Median	1.890	4.000	3.360	1.820
MAD	0.090	0.210	0.130	0.090

Na (mg/kg)					
LABTIUM (16)	4530	3000	3520	5490	C KB
LAS (42)	4410	3145	3500	5430	G CB
TCKI (64)	4303	3487	3487	5713	B KA
BKLABOR (92)	3793	2764	2949	4919	B KA
GAL (95)	4180	2693	2975	4629	G CB
POLASP (96)	4569	3417	3737	5792	

	Summary Statistics			
NDA mean	4136	3096	3348	5237
NDA st dev	428	252	243	475
N	41	40	40	40

(cont.)

ISE 2012.1 - Real totals

Sample	997	863	865	962	MIC
Na (mg/kg) (cont.)					
VICTORY (123)	3790	3390	3520	4920	B KA
KEMIRAKEMI (140)	3610	2550 *	2810 *	4730	B KA
TYRKEY (145)	4518	3438	3512	6526 *	E CA
GROTHER_XRF (149)	4028	2911	3110	5074	B KA
TEMAD (175)	4098	2920	3181	5051	B KA
QLDNR&M (210)	4000	-	-	-	D CB
AECSAGRICS (248)	3993	3018	3233	4912	
Deltares (293)	4483	3441	3596	5610	D KA
NFVGEO (321)	4210	3070	3380	5390	G CB
GLAGC (327)	4050	3070	3290	5200	G CB
SPASL (855)	3833	2708	2763 *	4654	G CB
WBT (866)	5786 **	14244 **	6454 **	5935	B KA
RIDIK (926)	4500	3300	3420	4000 *	C KB
CHEZL (961)	5157 *	3453	4058 *	5834	B KA
ETRR (1031)	3850	2670	2780 *	4840	L
CNES (1033)	4535	3165	3416	6150	L
CERT (1034)	4404	3111	3275	5380	L
NECSA (1035)	3812	2834	2999	4756	\$ L
PA2010LAB (1058)	3900	3500	3333	5067	C KB
NAPLAB1 (1068)	4100	3100	3390	5370	B KA
NPIAS (1089)	4462	3225	3497	5412	L
ARIST (1090)	3512	3219	3188	6599 *	\$ L
KFKI (1091)	5150 *	3257	3851 *	5666	L
REAK (1092)	4500	3200	3400	5200	A L
SACAV (1095)	3840	3010	3270	5390	
CAMPU (1096)	3157 *	2600	2828 *	4539	A L
ATCHI (1098)	4140	2910	1660 **	2390 **	
TEFA (1099)	4241	3257	3566	5557	\$ L
SYRAT (1100)	4097	3142	3335	4932	
TECNUC (1103)	3990	3205	3500	5360	L
IPCN (1104)	3771	2926	3258	4868	L
INDIES (1106)	4555	2987	3274	5288	A L
DESAR (1108)	4076	2954	3282	5089	A L
NOUSSE (1110)	4273	3153	3478	5560	L
LNIP (1111)	3620	2975	3315	5140	A L

	Statistical Results			
NDA mean	4136	3096	3348	5237
NDA st dev	428	252	243	475
N	41	40	40	40
Median	4100	3106	3334	5244
MAD	304	166	165	325

Nb (mg/kg)					
LABTIUM (16)	8.00	9.0 *	9.0	7.0 < **	C KB
HIDU (82)	3.30	15.9	10.3	13.2	C KB
GAL (95)	-	16.0	11.0	13.0	C KB
VICTORY (123)	4.78	21.9	14.0 *	17.3 **	D D
KEMIRAKEMI (140)	4.40	17.7	11.3	14.2	C KB
GROTHER_XRF (149)	8.00	17.7	13.7	15.0	B KA
TEMAD (175)	7.00	12.0	10.0	12.0	C KB
AECSAGRICS (248)	5.59	7.8 **	6.2 **	10.9 *	
Deltares (293)	3.84	17.2	11.5	13.6	C KB
ANALGEO (300)	6.00	18.0	12.0	14.0	C KB
RIDIK (926)	3.90	15.9	11.1	13.3	C KB
PA2010LAB (1058)	3.40	17.9	10.6	13.8	C KB
NAPLAB1 (1068)	3.10	15.1	9.5	12.9	C KB
SYRAT (1100)	6.09	8.6 *	6.7 *	9.9 **	

	Statistical Results			
NDA mean	4.981	16.50	10.80	13.42
NDA st dev	1.926	2.78	1.52	1.03
N	13	14	14	13
Median	4.780	15.95	10.80	13.30
MAD	1.310	1.85	1.00	0.70

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Nd (mg/kg)						
VICTORY	(123)	7.61	55.1	15.7	33.4	D D
KEMIRAKEMI	(140)	3.00 **	45.3	10.4	24.6	C KB
GROTHER_XRF	(149)	30.00 <	51.3	30.0 <	40.0 **	B KA
TEMAD	(175)	15.00 **	47.0	24.0 **	28.0	C KB
QLDNR&M	(210)	7.30	-	-	-	D D
AECASGRICS	(248)	6.84	41.8	14.5	27.5	
Deltares	(293)	8.29	41.0	16.2	27.1	C KB
MASHA	(1029)	8.60	52.5	17.4	32.1	
ETRR	(1031)	7.32	41.8	34.2 **	14.9 **	L
CNES	(1033)	20.50 **	109.0 **	29.9 **	60.9 **	
PA2010LAB	(1058)	13.70 **	46.1	20.6 *	28.1	C KB
NAPLAB1	(1068)	3.60 *	44.7	13.5	27.2	C KB
NPIAS	(1089)	7.01	49.0	14.8	31.6	L
SACAV	(1095)	5.00	44.0	12.0	30.0	
TEFA	(1099)	8.03	49.2	13.8	29.8	\$ L
SYRAT	(1100)	6.26	38.8	13.1	28.5	
IPCN	(1104)	-	40.2	8.9 *	10.7 **	L
DESAR	(1108)	8.00	46.5	15.3	31.0	A L
NOUSSE	(1110)	6.34	46.8	13.5	26.3	L
LNIP	(1111)	6.62	39.5	14.6	31.3	A L

	Statistical Results			
NDA mean	7.142	45.33	14.26	29.13
NDA st dev	1.373	5.89	2.23	3.42
N	18	19	18	19
Median	7.310	46.10	14.70	28.50
MAD	0.975	4.30	1.53	2.50

Ni (mg/kg)						
LABTIUM	(16)	20.00 <	60.0	20.0 <	38.0	C KB
LAS	(42)	8.99	53.6	15.4	34.5	G CB
HIDU	(82)	10.10	46.9	15.4	34.2	C KB
GAL	(95)	-	51.0	15.0	36.0	C KB
POLASP	(96)	8.92	58.3	16.9	37.9	
VICTORY	(123)	6.94	45.2	14.0	31.8	G CB
KEMIRAKEMI	(140)	8.40	54.0	16.8	36.9	C KB
TYRKEY	(145)	6.69	39.1 **	10.4 **	26.4 *	E ABC
GROTHER_XRF	(149)	15.00 <	37.7 **	15.0 <	23.0 **	B KA
TEMAD	(175)	4.00 *	39.0 **	10.0 **	28.0 *	C KB
QLDNR&M	(210)	25.00 **	-	-	-	D D
AECASGRICS	(248)	9.51	59.9	13.0	37.6	
Deltares	(293)	7.55	58.3	13.9	39.5	C KB
ANALGEO	(300)	9.00	54.0	14.0	35.0	C KB
LUARE	(314)	15.00 <	50.3	14.6	35.0	C KB
NFVGOE	(321)	8.89	51.1	15.0	33.1	G CB
GLAGC	(327)	9.80	52.4	15.1	33.8	G CB
ANAPBO	(448)	10.88	51.9	16.0	33.5	J CB
SPASL	(855)	8.22	46.7	15.3	32.4	G CB
RIDIK	(926)	8.40	51.4	15.1	35.0	C KB
CHEZL	(961)	8.00	46.0	14.0	33.0	G D
FBO-0611	(1025)	18.90 **	50.2	19.5 **	36.7	C KB
INSTN	(1037)	10.97	60.1	19.3 **	42.9 *	G BAE
PA2010LAB	(1058)	10.10	53.5	15.5	34.8	C KB
NAPLAB1	(1068)	7.30	49.0	12.2	33.7	C KB
LEC-NKUA	(1074)	7.62	50.4	14.7	29.7	G BAE
SYRAT	(1100)	8.45	55.9	13.3	37.6	
LNIP	(1111)	-	52.8	-	37.5	A L

	Statistical Results			
NDA mean	8.662	52.05	14.80	35.05
NDA st dev	1.659	4.17	1.44	3.05
N	23	27	24	27
Median	8.890	51.40	15.00	34.80
MAD	1.210	2.60	1.00	2.10

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
P (mg/kg)						
LABTIUM	(16)	546	1401	663	908	C KB
LAS	(42)	580	1400	631	865	G CB
TCKI	(64)	324 *	1180	457 *	706	B KA
HIDU	(82)	370	1099	538	1040 **	B KA
BKLABOR	(92)	531	1320	573	868	B KA
GAL	(95)	560	1339	627	838	G CB
POLASP	(96)	507	1350	607	859	
VICTORY	(123)	464	1270	559	819	B KA
KEMIRAKEMI	(140)	410	1220	490	720	B KA
GROTHER_XRF	(149)	507	1313	600	844	B KA
PLATINA222	(172)	448	1250	635	924	E E
TEMAD	(175)	480	1257	582	830	B KA
QLDNR&M	(210)	500	-	-	-	D CB
Deltares	(293)	483	1347	587	838	G CB
ANALGEO	(300)	529	1286	600	849	B KA
NFVGEO	(321)	490	1200	550	780	G CB
GLAGC	(327)	511	1240	566	776	G CB
SPASL	(855)	436	1046 *	458 *	653 *	G CB
RIDIK	(926)	550	1150	560	650 *	C KB
CHEZL	(961)	475	1245	550	824	B KA
LDAR02	(984)	469	1241	537	806	I D
LASPEE	(1036)	282 **	639 **	302 **	348 **	Z E
PA2010LAB	(1058)	346 *	1287	609	624 **	B KA
NAPLAB1	(1068)	480	1330	570	850	B KA
INDIES	(1106)	2620 **	-	3480 **	410 **	C KB

	Statistical Results			
NDA mean	489.3	1274	578.2	830.5
NDA st dev	66.1	90	49.5	65.2
N	25	23	24	24
Median	482.9	1257	571.5	827.0
MAD	46.1	63	34.1	44.0

Pb (mg/kg)						
LABTIUM	(16)	20.0 <	84.0	20.0 <	25.0 **	C KB
LAS	(42)	21.5	77.5	21.5	35.9	G CB
HIDU	(82)	26.9 *	76.0	21.1	37.8	C KB
GAL	(95)	21.0	79.0	22.0	35.0	C KB
POLASP	(96)	22.4	82.7	21.8	35.4	
VICTORY	(123)	20.7	72.0	21.2	38.8	G CB
KEMIRAKEMI	(140)	23.5	79.7	23.0	36.8	C KB
TYRKEY	(145)	17.4	72.0	20.8	38.7	E ABC
GROTHER_XRF	(149)	18.7	77.3	20.7	33.7	B KA
TEMAD	(175)	25.0	81.0	30.0 **	40.0	C KB
AECSAGRICS	(248)	19.1	76.0	19.8	33.7	
Deltares	(293)	19.6	81.1	20.2	35.5	C KB
ANALGEO	(300)	21.0	80.0	22.0	35.0	C KB
LUARE	(314)	24.9	81.5	22.2	39.7	C KB
NFVGEO	(321)	22.2	69.0	21.2	29.3 *	G CB
GLAGC	(327)	22.1	74.2	20.3	32.1	G CB
ANAPBO	(448)	19.7	66.2 *	14.6 **	24.4 **	J CB
SPASL	(855)	28.9 **	57.3 **	12.0 **	32.1	G CB
RIDIK	(926)	21.0	80.0	21.0	35.8	C KB
CHEZL	(961)	21.0	73.0	21.0	34.0	G D
LDAR02	(984)	18.4	74.9	18.6 *	32.6	J D
FBO-0611	(1025)	18.2	78.7	22.4	36.1	C KB
INSTN	(1037)	40.6 **	71.9	32.7 **	36.1	G Z
PA2010LAB	(1058)	21.5	85.4	21.4	37.2	C KB
NAPLAB1	(1068)	21.1	77.1	20.6	34.6	C KB
LEC-NKUA	(1074)	28.0 **	77.0	20.2	29.6 *	G AAC

	Summary Statistics			
NDA mean	20.90	77.74	21.10	35.56
NDA st dev	2.13	4.62	1.10	2.72
N	26	27	26	27

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Pb (mg/kg) (cont.)						
INDIES	(1106)	20.7	80.4	20.5	37.5	C KB
===== Statistical Results =====						
NDA mean		20.90	77.74	21.10	35.56	
NDA st dev		2.13	4.62	1.10	2.72	
N		26	27	26	27	
Median		21.05	77.33	21.05	35.38	
MAD		1.43	3.13	0.80	1.82	
=====						
Pd (mg/kg)						
NECSA	(1035)	3.93	25.6	6.66	14.6	
NPIAS	(1089)	43.00 <	93.0 <	75.00 <	110.0 <	L
===== Statistical Results (no NDA) =====						
N		1	1	1	1	
Median		3.930	25.60	6.660	14.60	
MAD		-	-	-	-	
=====						
Pt (mg/kg)						
NPIAS	(1089)	10.00 <	20.0 <	13.0 <	32.0 <	L
===== No Statistical Results =====						
Rb (mg/kg)						
LABTIUM	(16)	22.0 **	132	70.0	117	C KB
HIDU	(82)	27.7	124	64.7	108	C KB
GAL	(95)	30.0	127	66.0	113	C KB
VICTORY	(123)	38.2 **	171 **	82.9 **	146 **	D D
KEMIRAKEMI	(140)	31.4	125	66.2	109	C KB
GROTHE_XRF	(149)	29.0	135	69.3	116	B KA
TEMAD	(175)	34.0	136	68.0	116	C KB
AECSAGRICS	(248)	30.9	135	69.0	114	
Deltares	(293)	31.3	136	70.1	117	C KB
ANALGEO	(300)	27.0	123	63.0	106	C KB
GLAGC	(327)	35.0	124	68.0	106	C KB
RIDIK	(926)	30.0	129	68.0	114	C KB
FBO-0611	(1025)	27.9	131	71.5	114	C KB
MASHA	(1029)	30.0	135	70.8	114	A L
ETRR	(1031)	30.5	128	143.0 **	73 **	L
CNES	(1033)	26.6	135	70.1	118	L
NECSA	(1035)	29.3	118	61.6	104	
PA2010LAB	(1058)	29.4	133	66.8	116	C KB
NAPLAB1	(1068)	28.0	122	64.5	108	C KB
NPIAS	(1089)	33.6	144	74.4	124	L
KFKI	(1091)	35.5 *	140	72.9	123	L
REAK	(1092)	35.5 *	138	71.6	114	A L
SACAV	(1095)	30.0	120	60.0 *	110	
CAMPU	(1096)	4.0 **	26 **	-	16 **	A L
ATCHI	(1098)	31.1	126	63.8	104	
TEFA	(1099)	31.2	144	73.9	124	\$ L
SYRAT	(1100)	30.3	132	68.0	144 **	
TECNUC	(1103)	25.8	125	69.0	110	L
INDIES	(1106)	24.7 *	110 *	58.3 *	100	A L
DESAR	(1108)	31.0	135	70.4	118	A L
YAZA	(1109)	-	156 *	72.1	-	A L
NOUSSE	(1110)	30.6	136	68.0	114	L
LNIP	(1111)	25.9	128	68.1	108	A L
===== Statistical Results =====						
NDA mean		29.96	130.8	68.60	112.9	
NDA st dev		2.61	8.6	3.62	6.6	
N		32	33	32	32	
Median		30.00	132.0	68.55	114.0	
MAD		1.70	6.0	2.45	4.6	

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
S (mg/kg)						
OOSTERBEEK	(4)	839	447 *	318	1614	J CB
LABTIUM	(16)	972	633	389	1750	C KB
LAS	(42)	971	576	318	1765	G CB
HIDU	(82)	2552 **	781 *	632 **	1698	C KB
GAL	(95)	-	-	-	1855	J Z
VICTORY	(123)	8140 **	576	327	2003	D N
TEMAD	(175)	1547 **	540	344	1358	C KB
FORTEST	(212)	890	591	363	1589	X N
MUMPFROG	(275)	933	628	391	1839	X Z
Deltares	(293)	968	653	432	2027	G CB
NFVGOE	(321)	990	650	430	1960	G CB
GLAGC	(327)	985	617	405	1920	G CB
SPASL	(855)	926	681	495	1694	G CB
WBT	(866)	1600 **	1800 **	1300 **	2900 **	X N
RIDIK	(926)	1010	580	350	1200 *	C KB
CHEZL	(961)	480 **	247 **	243	1779	B KA
OPBLab	(975)	605 *	711	420	1258	X Z
PA2010LAB	(1058)	2697 **	512	308	1347	C KB
NPIAS	(1089)	580 < *	990 <	580 <	990 < *	L
INDIES	(1106)	1860 **	180 **	790 **	570 **	A L

	Statistical Results			
NDA mean	937.4	611.0	369.3	1737
NDA st dev	149.0	81.2	76.0	255
N	18	18	18	19
Median	978.5	604.0	390.0	1750
MAD	114.0	56.7	54.5	170

Sb (mg/kg)						
LABTIUM	(16)	100.000 <	100.00 <	100.000 <	100.000 <	
LAS	(42)	0.711	1.41	0.520	0.801	G D
HIDU	(82)	1.000	1.10	1.000 <	1.000	C KB
VICTORY	(123)	0.570	1.20	0.460	0.700	D D
TEMAD	(175)	3.000 **	3.00 **	3.000 **	4.000 **	C KB
QLDNR&M	(210)	4.500 **	-	-	-	D D
AECsAGRICS	(248)	0.670	1.14	0.420	0.690	A L
Deltares	(293)	0.610	1.24	0.440	0.690	G D
RIDIK	(926)	5.000 <	5.00 <	5.000 <	5.000 <	C KB
CHEZL	(961)	0.500 <	0.89	0.500 <	0.500 <	G D
FBO-0611	(1025)	1.050 *	1.13	1.000 <	1.000 <	C KB
MASHA	(1029)	0.686	1.29	0.539	0.768	A L
ETRR	(1031)	0.744	1.55	1.070 **	0.824	L
CNES	(1033)	0.860	1.63 *	0.690	1.200 **	L
NECSA	(1035)	0.834	1.20	0.519	0.761	
PA2010LAB	(1058)	1.140 *	0.76 *	0.560	0.530	C KB
NAPLAB1	(1068)	0.600	0.90	0.500 <	0.900	C KB
NPIAS	(1089)	0.711	1.13	0.400	0.610	L
KFKI	(1091)	0.778	1.25	0.529	0.683	L
REAK	(1092)	0.800	1.43	0.550	0.900	A L
SACAV	(1095)	0.500	1.30	0.400	0.700	
CAMPU	(1096)	0.520	0.95	0.217	0.620	A L
ATCHI	(1098)	0.390	0.87	0.283	0.402 *	
TEFA	(1099)	0.630	1.28	0.480	0.750	\$ L
SYRAT	(1100)	0.690	1.16	0.410	0.650	
TECNUC	(1103)	0.577	1.22	0.523	0.704	L
IPCN	(1104)	0.840	1.38	0.690	0.880	L
INDIES	(1106)	1.100 *	1.45	0.840 *	1.070 *	A L
DESAR	(1108)	0.700	135.00 **	70.400 **	118.100 **	A L
NOUSSE	(1110)	0.720	1.06	0.390	0.580	L
LNIP	(1111)	0.619	1.17	0.499	0.660	A L

	Summary Statistics			
NDA mean	0.6994	1.203	0.4839	0.7242
NDA st dev	0.1694	0.199	0.1436	0.1482
N	28	28	24	26

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Sb (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		0.6994	1.203	0.4839	0.7242	
NDA st dev		0.1694	0.199	0.1436	0.1482	
N		28	28	24	26	
Median		0.7110	1.212	0.5195	0.7270	
MAD		0.1170	0.132	0.1045	0.1020	
=====						
Sc (mg/kg)						
LABTIUM	(16)	20.00 <	20.0 <	20.00 <	20.0 <	C KB
GAL	(95)	1.40	17.2	4.30 *	9.7	G CB
VICTORY	(123)	1.67	17.3	4.91	12.5	G CB
KEMIRAKEMI	(140)	4.40 **	16.9	7.00 **	15.6 **	C KB
GROTHER_XRF	(149)	10.00 <	16.0	10.00 <	10.3	B KA
TEMAD	(175)	4.00 **	20.0	6.00 **	14.0 **	C KB
AECASGRICS	(248)	1.52	19.0	4.71	10.9	A L
Deltares	(293)	2.58 **	15.4	4.85	10.0	C KB
MASHA	(1029)	1.57	17.9	4.85	10.4	A L
ETRR	(1031)	1.46	16.7	12.80 **	5.0 **	L
CNES	(1033)	1.83	21.7 *	5.71 **	13.0 *	L
CERT	(1034)	1.87	17.6	4.81	10.8	A L
NECSA	(1035)	1.42	15.0	3.99 **	8.9 *	\$ L
NAPLAB1	(1068)	2.00	16.6	4.60	11.2	C KB
NPIAS	(1089)	1.70	19.7	5.18	11.5	L
KFKI	(1091)	1.87	18.7	5.01	11.3	L
REAK	(1092)	1.74	19.0	4.96	11.1	A L
SACAV	(1095)	1.25	16.6	4.28 *	10.2	
CAMPU	(1096)	0.98 *	14.1 *	3.96 **	8.6 *	A L
ATCHI	(1098)	1.05	16.6	4.18 *	11.8	
TEFA	(1099)	1.55	19.3	4.99	11.4	\$ L
SYRAT	(1100)	1.59	18.2	4.73	11.2	
TECNUC	(1103)	1.47	19.2	4.76	10.7	L
IPCN	(1104)	1.71	19.9	4.99	11.1	L
INDIES	(1106)	1.88	17.8	4.73	11.0	A L
DESAR	(1108)	1.70	19.0	5.00	11.4	A L
YAZA	(1109)	1.71	18.9	4.83	-	A L
NOUSSE	(1110)	1.59	19.1	4.94	11.1	L
LNIP	(1111)	1.28	16.4	4.54	10.2	A L
		===== Statistical Results =====				
NDA mean		1.610	17.90	4.838	10.92	
NDA st dev		0.282	1.82	0.222	0.89	
N		27	28	27	27	
Median		1.670	17.87	4.850	11.05	
MAD		0.200	1.25	0.150	0.62	
=====						
Se (mg/kg)						
KEMIRAKEMI	(140)	2.00	3.80 **	1.80	2.10	C KB
TEMAD	(175)	3.00 <	3.00 <	3.00 <	3.00 <	C KB
QLDNR&M	(210)	1.50	-	-	-	D D
SPASL	(855)	31.15	46.04 **	21.58	35.50	G CB
RIDIK	(926)	1.00 <	1.50	1.00 <	-	C KB
CHEZL	(961)	1.00 <	2.00	1.00 <	1.00 <	G D
NAPLAB1	(1068)	1.00 <	1.20	1.00 <	1.00 <	C KB
NPIAS	(1089)	1.50 <	2.00 <	2.00 <	3.00 <	L
TEFA	(1099)	0.56 <	1.29	0.70 <	1.27 <	\$ L
NOUSSE	(1110)	0.13	0.81	0.37	0.54	
LNIP	(1111)	0.25	1.11	0.71	0.88	A L
		===== Statistical Results =====				
NDA mean		-	1.295	-	-	
NDA st dev		-	0.571	-	-	
N		5	8	4	4	
Median		1.500	1.395	1.253	1.492	
MAD		1.249	0.435	0.715	0.780	

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Si (g/kg)						
LABTIUM	(16)	414	251	355	283	C KB
LAS	(42)	418	258	354	282	D CB
TCKI	(64)	407	257	355	284	B KA
HIDU	(82)	406	242 *	346	276	B KA
BKLABOR	(92)	413	257	358	285	B KA
GAL	(95)	414	256	357	285	B KB
VICTORY	(123)	411	252	352	283	B KA
KEMIRAKEMI	(140)	420	262	365 *	291	B KA
TYRKEY	(145)	407	255	352	279	D P
GROTHER_XRF	(149)	415	256	359	285	B KA
TEMAD	(175)	404	251	352	281	B KA
QLDNR&M	(210)	442 **	-	-	-	D CB
Deltares	(293)	420	257	360	288	D KA
ANALGEO	(300)	408	240 *	348	275	B KA
SPASL	(855)	46 **	43 **	57 **	50 **	G CB
WBT	(866)	409	243 *	351	278	B KA
RIDIK	(926)	420	255	355	285	C KB
CHEZL	(961)	412	243 *	347	276	B KA
PA2010LAB	(1058)	419	261	362	292	B KB
NAPLAB1	(1068)	415	255	354	283	B KA
INDIES	(1106)	405	295 **	427 **	298 **	A L

	Statistical Results			
NDA mean	412.6	255.1	354.4	282.9
NDA st dev	8.0	5.3	5.0	4.8
N	21	20	20	20
Median	413.0	255.0	354.5	283.0
MAD	6.0	3.5	3.4	3.2

Sn (mg/kg)						
LABTIUM	(16)	20.00 <	20.00 <	20.00 <	20.00 <	C KB
LAS	(42)	1.37	4.12	2.07	3.74	G D
HIDU	(82)	1.40	3.60	1.50	3.90	C KB
GAL	(95)	-	4.10	-	3.70	C KB
KEMIRAKEMI	(140)	1.80	2.20 *	-	2.90	C KB
GROTHER_XRF	(149)	40.00 <	40.00 <	40.00 <	40.00 <	B KA
TEMAD	(175)	3.00 <	3.00 <	3.00 <	3.00	C KB
Deltares	(293)	1.65	4.50	2.25	4.10	G D
ANAPBO	(448)	1.66	3.27	1.58	3.89	J CB
RIDIK	(926)	2.00	2.00 *	2.20	2.50 *	C KB
CHEZL	(961)	1.00 < *	3.10	1.50	2.70	G D
FBO-0611	(1025)	2.00 <	3.81	2.00 <	4.53	C KB
PA2010LAB	(1058)	1.50	4.00	2.00	3.70	C KB
NAPLAB1	(1068)	2.40 *	3.70	2.10	3.60	C KB
NPIAS	(1089)	21.00 <	81.00 <	35.00 <	55.00 <	L

	Statistical Results			
NDA mean	1.635	3.741	1.967	3.658
NDA st dev	0.297	0.621	0.313	0.498
N	8	11	8	12
Median	1.655	3.700	2.035	3.700
MAD	0.205	0.420	0.190	0.300

Sr (mg/kg)						
LABTIUM	(16)	46.0	85.0	54.0	157	C KB
LAS	(42)	43.7	83.3	56.4	151	G CB
HIDU	(82)	42.2	81.6	56.6	157	C KB
GAL	(95)	43.6	84.1	57.9	161	C KB
VICTORY	(123)	51.0 *	103.0 **	66.0	196 *	D D

	Summary Statistics			
NDA mean	42.89	84.09	56.54	155.4
NDA st dev	4.02	4.18	4.81	15.2
N	27	25	26	28

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Sr (mg/kg) (cont.)						
KEMIRAKEMI	(140)	42.9	81.7	55.6	155	C KB
GROTHE_XRF	(149)	48.5	84.7	58.3	155	B KA
TEMAD	(175)	38.0	84.0	53.0	151	C KB
QLDNR&M	(210)	46.2	-	-	-	D D
AECSAGRICS	(248)	43.3	86.6	60.5	142	
Deltares	(293)	44.4	88.7	59.5	169	C KB
ANALGEO	(300)	37.0	75.0 *	51.0	140	C KB
GLAGC	(327)	44.0	87.0	54.2	162	G CB
SPASL	(855)	40.1	77.4	50.2	141	G CB
RIDIK	(926)	43.9	81.0	56.0	158	C KB
CHEZL	(961)	14.0 **	62.0 **	37.0 **	137	B KA
FBO-0611	(1025)	38.0	85.3	59.1	157	C KB
NECSA	(1035)	27.2 **	69.7 **	40.7 **	139	
INSTN	(1037)	69.5 **	65.2 **	70.4 *	218 **	G Z
PA2010LAB	(1058)	43.3	87.0	57.7	162	C KB
NAPLAB1	(1068)	40.5	79.7	55.0	155	C KB
NPIAS	(1089)	33.6 *	115.0 **	48.1	148	L
KFKI	(1091)	-	-	-	307 **	L
TEFA	(1099)	44.3	82.9	62.4	174	\$ L
SYRAT	(1100)	44.2	86.6	58.2	161	
INDIES	(1106)	42.7	87.4	60.5	173	C KB
DESAR	(1108)	-	-	-	183	A L
NOUSSE	(1110)	12.5 **	30.6 **	16.0 **	49 **	L
LNIP	(1111)	34.3 *	-	46.9 *	121 *	A L

	Statistical Results			
NDA mean	42.89	84.09	56.54	155.4
NDA st dev	4.02	4.18	4.81	15.2
N	27	25	26	28
Median	43.30	84.00	56.20	157.0
MAD	2.80	3.00	3.27	10.7

Te (mg/kg)						
AL-West	(78)	2.27	-	-	-	U CB
KEMIRAKEMI	(140)	3.60	3.70	3.60	4.80	C KB

	Statistical Results (no NDA)			
N	2	1	1	1
Median	2.935	3.700	3.600	4.800
MAD	0.665	-	-	-

Th (mg/kg)						
LABTIUM	(16)	10.00 <	15.0	10.00 <	12.00 *	C KB
HIDU	(82)	10.00 <	11.3	10.00 <	8.50	C KB
VICTORY	(123)	2.61	17.2 *	6.89	12.20 *	D D
KEMIRAKEMI	(140)	22.70 **	35.6 **	27.30 **	30.60 **	C KB
GROTHE_XRF	(149)	10.00 <	16.7	10.00 <	10.00 <	B KA
TEMAD	(175)	8.00 **	19.0 **	12.00 **	21.00 **	C KB
QLDNR&M	(210)	1.80	-	-	-	D D
AECSAGRICS	(248)	2.07	12.7	5.71	9.46	
Deltares	(293)	2.07	13.2	5.54	9.40	G D
RIDIK	(926)	2.60	13.3	6.30	10.50	C KB
MASHA	(1029)	2.33	14.3	6.57	10.48	A L
ETRR	(1031)	2.19	13.3	12.60 **	6.57 **	L
CNES	(1033)	4.40 **	28.0 **	12.18 **	20.05 **	L
NECSA	(1035)	2.22	1.2 **	5.17	8.66	
PA2010LAB	(1058)	2.10	15.2	6.60	9.90	C KB
NAPLAB1	(1068)	1.70	12.5	4.80	9.00	C KB
NPIAS	(1089)	2.36	14.8	6.52	10.70	L

	Summary Statistics			
NDA mean	2.248	13.53	5.840	9.801
NDA st dev	0.341	1.70	0.748	1.020
N	26	29	26	28

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Th (mg/kg)	(cont.)					
KFKI	(1091)	2.65	14.0	5.66	10.40	L
REAK	(1092)	2.65	13.7	5.50	10.00	A L
SACAV	(1095)	1.50 *	12.0	5.00	9.00	
CAMPU	(1096)	-	11.0	4.92	8.63	A L
ATCHI	(1098)	2.06	12.2	5.34	9.04	
TEFA	(1099)	2.53	14.6	6.30	10.70	\$ L
SYRAT	(1100)	2.23	12.3	5.23	9.75	
TECNUC	(1103)	2.23	12.7	6.18	9.40	L
IPCN	(1104)	2.25	15.3	6.30	10.64	L
INDIES	(1106)	2.79	13.5	6.10	10.25	A L
DESAR	(1108)	2.40	14.0	6.00	10.10	A L
NOUSSE	(1110)	2.08	13.9	5.91	9.77	L
LNIP	(1111)	1.92	12.5	5.71	9.61	A L

	=====	Statistical Results				=====
NDA mean	2.248	13.53	5.840	9.801		
NDA st dev	0.341	1.70	0.748	1.020		
N	26	29	26	28		
Median	2.240	13.70	6.050	9.950		
MAD	0.235	1.20	0.535	0.720		

Ti (mg/kg)						
LABTIUM	(16)	875	4976	2968	3897	C KB
LAS	(42)	810	4895	2880	3720	D CB
TCKI	(64)	960	4980	3000	3840	B KA
HIDU	(82)	657 **	4954	2938	3664	C KB
BKLABOR	(92)	965	4793	2855	3669	B KA
GAL	(95)	900	5070	2890	3754	B KA
VICTORY	(123)	977	5430 *	3130	4010	B KA
KEMIRAKEMI	(140)	610 **	4860	2740	3640	
TYRKEY	(145)	790	5980 **	2980	3610	D E
GROTHER_XRF	(149)	937	5071	2982	3833	B KA
TEMAD	(175)	903	5064	2989	3707	B KA
QLDNR&M	(210)	880	-	-	-	D CB
AECSAGRICS	(248)	903	4906	3216 *	4026	
Deltares	(293)	922	5106	3020	3879	D KA
ANALGEO	(300)	948	4881	2976	3818	B KA
LUARE	(314)	1200 **	4380 *	2850	3550	C KB
NFVGOE	(321)	900	4890	2890	3730	G CB
GLAGC	(327)	885	4510	2790	3370 *	G CB
ANAPBO	(448)	871	4719	2553 **	3797	J CB
RIDIK	(926)	950	4750	2930	3790	C KB
CHEZL	(961)	850	4677	2877	3658	B KA
FBO-0611	(1025)	1029	5028	3242 *	3807	
ETRR	(1031)	873	3980 **	2480 **	2990 **	L
CNES	(1033)	1115 *	5698 **	3150	3725	L
PA2010LAB	(1058)	1031	5049	3057	3930	C KB
NAPLAB1	(1068)	880	4960	2940	3770	B KA
NPIAS	(1089)	1182 **	5062	3088	3879	L
KFKI	(1091)	1612 **	5722 **	3678 **	4707 **	L
REAK	(1092)	680 **	2590 **	2690 *	3530	A L
SYRAT	(1100)	895	4839	3044	3918	
INDIES	(1106)	1045	4676	3027	3731	A L
DESAR	(1108)	949	4860	2872	3528	A L
NOUSSE	(1110)	697 *	-	3018	4226 *	L
LNIP	(1111)	887	4845	2934	3110 **	A L

	=====	Statistical Results				=====
NDA mean	911.2	4910	2959	3762		
NDA st dev	73.2	215	128	164		
N	34	32	33	33		
Median	901.5	4901	2968	3754		
MAD	50.0	156	88	114		

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
TI (mg/kg)						
LAS	(42)	0.262	1.180	0.442	0.695	G D
HIDU	(82)	2.000 <	2.000 <	2.000 <	2.000 <	C KB
TEMAD	(175)	3.000 <	3.000 <	3.000 <	3.000 <	C KB
Deltares	(293)	0.230	1.110	0.400	0.630	G D
GLAGC	(327)	0.380 <	0.980	0.380 <	0.570	G BAF
RIDIK	(926)	0.270	0.900	0.300	0.700	C KB
CHEZL	(961)	0.240	0.970	0.380	0.580	G D
NAPLAB1	(1068)	1.000	1.000 <	1.000 <	1.000 <	C KB

	Statistical Results (no NDA)			
N	5	5	4	5
Median	0.2620	0.9800	0.3900	0.6300
MAD	0.0220	0.0800	0.0310	0.0600

U (mg/kg)						
LABTIUM	(16)	10.000 <	10.00 <	10.00 <	10.00 <	C KB
VICTORY	(123)	1.100	4.73	3.49	3.11	D D
KEMIRAKEMI	(140)	8.300 **	14.40 **	10.60 **	12.60 **	C KB
GROTHE_XRF	(149)	10.000 <	10.00 <	10.00 <	10.00 <	B KA
TEMAD	(175)	3.000 <	3.00 <	3.00 <	3.00 <	C KB
QLDNR&M	(210)	0.700	-	-	-	D D
AECsAGRICS	(248)	0.610	3.00	2.55	1.97	
Deltares	(293)	0.610	3.40	2.39	2.14	G D
RIDIK	(926)	2.000 <	3.50	2.30	2.30	C KB
MASHA	(1029)	0.890	4.04	3.30	2.80	A L
ETRR	(1031)	-	3.63	2.92	3.13	L
CNES	(1033)	0.710	3.62	2.57	2.55	L
CERT	(1034)	1.150	3.13	2.78	1.71	A L
NECSA	(1035)	0.921	3.67	2.88	2.70	
NAPLAB1	(1068)	1.100	4.30	3.30	2.00	C KB
NPIAS	(1089)	0.870	3.94	2.90	2.61	L
KFKI	(1091)	0.833	3.52	2.79	2.51	L
REAK	(1092)	1.020	3.89	3.20	2.50	A L
SACAV	(1095)	0.900	4.40	3.50	3.20	
CAMPU	(1096)	0.421	2.70	2.47	1.99	A L
TEFA	(1099)	0.870	4.04	3.11	2.70	\$ L
SYRAT	(1100)	0.570	2.68	2.55	1.88	
TECNUC	(1103)	0.680	3.06	2.79	2.11	L
IPCN	(1104)	0.460	5.30 *	4.13 *	2.28	L
INDIES	(1106)	1.100	3.02	2.38	2.30	A L
DESAR	(1108)	0.830	3.70	2.90	2.50	A L
NOUSSE	(1110)	0.700	3.28	2.77	2.27	L
LNIP	(1111)	0.702	3.81	3.08	2.72	A L

	Statistical Results			
NDA mean	0.8060	3.593	2.855	2.407
NDA st dev	0.2268	0.578	0.461	0.405
N	23	24	24	24
Median	0.8330	3.650	2.890	2.500
MAD	0.1530	0.390	0.330	0.265

V (mg/kg)						
LABTIUM	(16)	33.0	155	71.0	96.0	C KB
LAS	(42)	46.2	149	68.7	88.1	G CB
TCKI	(64)	31.0 *	171 **	62.0	93.0	B KA
HIDU	(82)	47.3	167 *	74.1	101.4	C KB
GAL	(95)	41.0	145	63.0	93.0	C KB
VICTORY	(123)	36.9	139	67.1	80.8	G CB
KEMIRAKEMI	(140)	61.5 **	150	73.1	95.5	C KB

	Summary Statistics			
NDA mean	43.26	147.5	69.31	90.20
NDA st dev	5.69	7.2	5.86	6.13
N	34	33	33	33

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
V (mg/kg) (cont.)						
GROTHER_XRF	(149)	47.0	144	66.0	88.0	B KA
TEMAD	(175)	36.0	152	76.0	86.0	C KB
QLDNR&M	(210)	43.9	-	-	-	D D
AECSAGRICS	(248)	41.2	150	72.4	95.3	A L
Deltares	(293)	41.4	153	71.0	92.1	C KB
ANALGEO	(300)	46.0	149	69.0	93.0	C KB
LUARE	(314)	78.3 **	147	71.9	89.7	C KB
GLAGC	(327)	43.0	146	67.0	86.0	G CB
ANAPBO	(448)	42.8	140	66.7	85.8	J CB
RIDIK	(926)	46.0	153	76.0	90.0	C KB
CHEZL	(961)	44.0	134	65.0	84.0	G D
FBO-0611	(1025)	54.3	142	69.9	91.2	C KB
ETRR	(1031)	37.4	133 *	55.6 *	76.5 *	L
CNES	(1033)	41.7	152	64.6	90.2	L
CERT	(1034)	47.1	140	61.7	90.8	L
NECSA	(1035)	35.2	58 **	27.6 **	38.8 **	\$ L
PA2010LAB	(1058)	53.3	152	73.9	95.7	C KB
NAPLAB1	(1068)	40.9	139	64.5	88.7	C KB
LEC-NKUA	(1074)	33.6	148	57.5 *	79.1	G BAE
NPIAS	(1089)	48.5	161	75.5	98.3	L
KFKI	(1091)	59.6 *	190 **	85.0 *	114.0 **	L
REAK	(1092)	51.9	71 **	71.6	85.1	A L
SYRAT	(1100)	43.0	151	72.0	92.0	
INDIES	(1106)	43.6	144	69.8	88.5	A L
DESAR	(1108)	42.0	147	67.0	84.5	A L
NOUSSE	(1110)	46.3	148	73.4	100.0	L
LNIP	(1111)	20.9 **	84 **	40.1 **	37.7 **	A L

	Statistical Results			
NDA mean	43.26	147.5	69.31	90.20
NDA st dev	5.69	7.2	5.86	6.13
N	34	33	33	33
Median	43.30	148.0	69.00	90.00
MAD	3.76	5.0	4.10	4.23

W (mg/kg)						
VICTORY	(123)	1.200	2.74 *	1.93	2.85 **	D D
KEMIRAKEMI	(140)	1.200	1.10 **	1.80	0.70 **	C KB
TEMAD	(175)	3.000 <	3.00 <	3.00 <	4.00 **	
RIDIK	(926)	1.700 **	2.60	1.50	2.70 *	C KB
NECSA	(1035)	1.070	1.91	1.59	1.93	
NAPLAB1	(1068)	1.000 <	2.10	1.30	1.70	C KB
NPIAS	(1089)	1.050	2.63	1.69	1.89	L
KFKI	(1091)	1.070	2.17	1.68	2.19	L
SACAV	(1095)	0.800	1.90	1.60	1.80	
CAMPU	(1096)	-	1.72	1.40	1.51	A L
TEFA	(1099)	0.960	2.23	1.75	1.82	\$ L
SYRAT	(1100)	0.850	1.90	1.54	2.35	
DESAR	(1108)	0.900	1.80	67.00 **	1.60	A L
NOUSSE	(1110)	0.930	2.13	1.53	1.71	L
LNIP	(1111)	0.955	2.16	1.80	1.79	A L

	Statistical Results			
NDA mean	0.9893	2.082	1.628	1.833
NDA st dev	0.1359	0.325	0.183	0.318
N	12	14	14	15
Median	1.0050	2.115	1.640	1.820
MAD	0.0900	0.215	0.125	0.220

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Y (mg/kg)						
LABTIUM	(16)	9.00	35.0	16.0 *	24.0	C KB
HIDU	(82)	10.00 <	36.4	9.3	23.9	C KB
GAL	(95)	7.80	38.0	11.4	25.5	C KB
VICTORY	(123)	8.19	47.7 **	12.3	30.8 **	D D
KEMIRAKEMI	(140)	7.80	39.7	13.0	27.6	C KB
GROTHE_XRF	(149)	10.67 *	37.3	13.3	25.0	B KA
TEMAD	(175)	9.00	27.0 **	12.0	28.0	C KB
QLDNR&M	(210)	7.10	-	-	-	D D
AECSAGRICS	(248)	10.00 <	36.1	10.0 <	23.9	
Deltares	(293)	8.36	38.9	12.3	26.9	C KB
ANALGEO	(300)	6.00	35.0	9.0	25.0	C KB
RIDIK	(926)	8.00	37.0	8.0	23.0	C KB
FBO-0611	(1025)	15.00 <	38.3	15.0 <	27.4	C KB
PA2010LAB	(1058)	6.60	35.7	11.3	24.1	C KB
NAPLAB1	(1068)	6.50	36.8	10.1	23.7	C KB

	Statistical Results			
NDA mean	7.817	36.94	11.44	24.99
NDA st dev	1.350	1.81	2.13	1.85
N	12	14	12	14
Median	7.900	36.90	11.70	25.00
MAD	0.950	1.30	1.45	1.20

Zn (mg/kg)						
LABTIUM	(16)	28.0	220	53.0	92.0	C KB
LAS	(42)	22.9	237	59.5	97.4	G CB
TCKI	(64)	174.0 **	457 **	249.0 **	313.0 **	B KA
HIDU	(82)	25.6	223	56.8	95.2	C KB
GAL	(95)	24.0	229	58.0	95.0	C KB
POLASP	(96)	22.2	231	59.7	94.6	
VICTORY	(123)	30.2 *	214	63.5	106.0	G CB
KEMIRAKEMI	(140)	17.6	216	49.8	85.0	C KB
TYRKEY	(145)	19.1	207	52.7	92.6	E AAA
GROTHE_XRF	(149)	20.0 <	226	48.0	89.0	B KA
TEMAD	(175)	18.0	224	53.0	90.0	C KB
QLDNR&M	(210)	22.0	-	-	-	D CB
AECSAGRICS	(248)	25.4	265 *	54.5	106.0	H IB
Deltares	(293)	16.9	235	56.0	94.5	C KB
ANALGEO	(300)	20.0	214	49.0	88.0	C KB
LUARE	(314)	27.5	216	56.9	93.5	C KB
NFVGEO	(321)	22.8	225	56.3	93.0	G CB
GLAGC	(327)	22.0	222	54.0	91.0	G CB
ANAPBO	(448)	31.2 *	241	69.0 *	110.7 *	J CB
SPASL	(855)	48.2 **	259	111.7 **	138.9 **	G CB
WBT	(866)	17.3	199	40.2 **	63.0 **	G CB
RIDIK	(926)	21.0	220	56.0	91.0	C KB
CHEZL	(961)	24.0	212	59.0	98.0	G D
FBO-0611	(1025)	20.0 <	235	58.4	94.3	C KB
MASHA	(1029)	23.9	232	61.3	101.0	A L
ETRR	(1031)	-	249	153.0 **	70.9 **	L
CNES	(1033)	25.9	276 *	68.5 *	126.0 **	L
NECSA	(1035)	23.5	225	51.9	96.0	
INSTN	(1037)	25.6	226	60.5	97.6	G Z
PA2010LAB	(1058)	23.4	237	55.2	94.0	C KB
NAPLAB1	(1068)	18.9	217	52.5	90.7	C KB
LEC-NKUA	(1074)	22.7	230	55.9	98.0	G AAC
NPIAS	(1089)	25.0	246	59.4	101.0	L
KFKI	(1091)	27.0	262 *	61.6	102.0	L
REAK	(1092)	25.0	260	61.2	103.0	A L
SACAV	(1095)	19.0	209	50.0	97.0	

	Summary Statistics			
NDA mean	23.05	227.7	55.86	96.14
NDA st dev	3.54	17.0	5.13	6.36
N	40	44	43	43

(cont.)

ISE 2012.1 - Real totals

Sample		997	863	865	962	MIC
Zn (mg/kg) (cont.)						
CAMPU	(1096)	-	15 **	140.3 **	-	A L
ATCHI	(1098)	16.7	201	48.2	103.0	
TEFA	(1099)	22.4	250	60.2	101.0	\$ L
SYRAT	(1100)	25.0	255	55.5	104.0	
TECNUC	(1103)	15.1 *	241	45.5 *	95.1	L
IPCN	(1104)	21.3	234	52.8	94.6	L
INDIES	(1106)	27.1	222	55.5	96.3	A L
NOUSSE	(1110)	23.4	232	55.1	95.5	L
LNIP	(1111)	-	213	-	105.0	A L

	Statistical Results			
NDA mean	23.05	227.7	55.86	96.14
NDA st dev	3.54	17.0	5.13	6.36
N	40	44	43	43
Median	23.40	227.5	56.01	95.50
MAD	2.30	11.5	3.51	4.50

Zr (mg/kg)						
LABTIUM	(16)	211	156	177	213	C KB
HIDU	(82)	177	159	176	195	C KB
BKLABOR	(92)	224	161	188	217	B KA
GAL	(95)	218	167	182	205	C KB
VICTORY	(123)	286	209 *	238 **	264 *	D D
KEMIRAKEMI	(140)	186	157	167	200	C KB
GROTHER_XRF	(149)	234	157	176	205	B KA
TEMAD	(175)	295 *	224 **	192	250	C KB
QLDNR&M	(210)	195	-	-	-	D D
AECSAGRICS	(248)	214	188	187	227	
Deltares	(293)	231	169	188	208	C KB
RIDIK	(926)	250	160	182	186	C KB
FBO-0611	(1025)	185	168	190	207	C KB
ETRR	(1031)	163	261 **	333 **	254 *	L
PA2010LAB	(1058)	197	168	182	207	C KB
NAPLAB1	(1068)	179	158	173	194	C KB
NPIAS	(1089)	500 <	400 <	400 <	500 <	L
TEFA	(1099)	256	179	199	228	\$ L
SYRAT	(1100)	221	188	202	222	
NOUSSE	(1110)	138	159	144 **	169 *	L
LNIP	(1111)	136	232 **	173	234	A L

	Statistical Results			
NDA mean	207.6	165.1	182.7	211.5
NDA st dev	40.5	14.6	11.4	20.8
N	20	19	19	19
Median	212.5	168.0	182.0	208.2
MAD	27.0	10.7	8.0	13.8

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Ag (mg/kg)						
ECOSPACE	(49)	10.0000 <	10.000 <	10.0000 <	10.0000 <	J CB
ARCHIMEDES	(73)	5.0000 <	5.000 <	-	-	U D
GGM	(98)	1.0000 <	1.000 <	1.0000 <	1.0000 <	I D
CISCA	(112)	2.0000 <	2.000 <	-	-	U D
HILL	(180)	0.4000 <	0.400 <	0.4000 <	0.4000 <	J D
SPOOR	(305)	-	-	2.0000 <	2.0000 <	Z CB
CGEA	(1030)	0.0633	0.208	0.0850	0.0900	Z D
===== Statistical Results (no NDA) =====						
N		1	1	1	1	
Median		0.06330	0.2080	0.08500	0.09000	
MAD		-	-	-	-	
=====						
Al (g/kg)						
ALCONTROL	(1)	3.50	33.0	14.0	19.0	I CB
ECOSPACE	(49)	4.38	43.8	18.3	31.6	J CB
EXTAQS	(52)	4.28	44.6	19.7	27.2	I CB
MLABTW	(70)	4.82	50.0	21.9	27.4	I CB
DATE	(89)	4.36	54.3	19.2	26.0	Z CB
CISCA	(112)	4.02	40.2	-	-	U D
LABVAL	(133)	3.01	27.1	15.9	13.6	X CB
HILL	(180)	3.10	30.0	12.7	14.4	J D
GSISMA	(214)	4.80	71.1	27.2 *	36.4	U CB
ARCWSG	(238)	4.44	46.7	17.8	26.3	I CB
PA2010LAB	(1058)	5.92 *	81.0 *	34.5 **	51.2 *	U CB
===== Statistical Results =====						
NDA mean		4.243	43.49	18.03	25.47	
NDA st dev		0.677	14.22	4.30	9.19	
N		11	11	10	10	
Median		4.360	44.60	18.75	26.74	
MAD		0.440	9.73	2.98	6.30	
=====						
As (mg/kg)						
ALCONTROL	(1)	4.00 <	22.0	6.70	12.0	I CB
ECOSPACE	(49)	10.00 <	23.9	10.00 <	11.6	J BAF
POULAIN	(51)	2.10	18.9	5.50 *	9.7	I CB
EXTAQS	(52)	5.00 <	24.0	7.91	12.9	I CB
MLABTW	(70)	5.00 <	27.3	7.95	13.6	I CB
ARCHIMEDES	(73)	2.06	22.8	-	-	U D
DATE	(89)	1.62	20.0	6.80	9.0 *	
POLASP	(96)	2.43	27.7	8.50	13.6	
GGM	(98)	2.03	23.4	7.13	11.7	I D
CISCA	(112)	2.24	24.1	7.74	12.7	U D
MERLIN	(159)	5.00 <	21.9	15.00 <	15.0 <	J CB
PLATINA222	(172)	1.94	22.0	6.85	11.7	J F
HILL	(180)	3.00 *	25.0	8.00	12.0	J D
EXACT	(190)	3.80 <	22.0	6.80	11.0	I CB
CHEMLAB	(228)	3.00 <	24.0	7.50	12.0	T CB
ARCWSG	(238)	2.08	21.5	6.64	10.4	I CB
MBT	(291)	4.00 <	24.1	7.38	12.1	---
Deltares	(293)	2.79	27.9	8.46	13.7	I D
ARRET	(298)	1.48	18.9	4.19 **	9.3 *	J CB
ANALGEO	(300)	3.00 <	24.3	7.40	12.6	J CB
SPOOR	(305)	-	-	7.20	12.0	Z CB
CHRON	(424)	1.87	21.3	6.97	11.2	U CB
CGEA	(1030)	4.50 **	-	9.98 **	14.1	Z D
PA2010LAB	(1058)	3.29 *	26.1	8.60	13.7	U CB
===== Summary Statistics =====						
NDA mean		2.084	23.21	7.399	12.14	
NDA st dev		0.421	2.46	0.842	1.30	
N		14	22	21	22	(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
As (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		2.084	23.21	7.399	12.14	
NDA st dev		0.421	2.46	0.842	1.30	
N		14	22	21	22	
Median		2.091	23.64	7.380	12.00	
MAD		0.280	1.64	0.580	0.85	
=====						
B (mg/kg)						
ECOSPACE	(49)	50.00 <	50.0 <	50.0 <	51.1	J CB
DATE	(89)	7.84	27.2	12.4	24.9	
HILL	(180)	20.00 <	20.0 <	20.0 <	20.0 <	J D
		===== Statistical Results (no NDA) =====				
N		1	1	1	2	
Median		7.840	27.24	12.35	38.00	
MAD		-	-	-	13.10	
=====						
Ba (mg/kg)						
ALCONTROL	(1)	40.0 <	180	47.0	41.0	I CB
ECOSPACE	(49)	16.5	215	54.5	67.8	J CB
EXTAQS	(52)	16.5	212	59.3	54.4	I CB
MLABTW	(70)	16.6	226	64.3	56.6	I CB
ARCHIMEDES	(73)	13.4	193	-	-	U D
DATE	(89)	17.4	201	51.9	45.4	J CB
GGM	(98)	15.4	214	51.1	45.5	I D
CISCA	(112)	15.6	204	50.7	47.8	U D
HILL	(180)	15.8	200	52.0	38.0	J D
EXACT	(190)	15.0 <	190	49.0	40.0	I CB
CHEMLAB	(228)	15.0	210	57.0	60.0	T CB
ARRET	(298)	19.2 *	157 **	55.1	36.3	J CB
ANALGEO	(300)	14.6	211	61.0	51.0	J CB
SPOOR	(305)	-	-	65.0	75.0 *	Z CB
CGEA	(1030)	32.1 **	105 **	23.6 **	43.2	Z D
		===== Statistical Results =====				
NDA mean		15.87	205.1	54.42	47.44	
NDA st dev		1.38	15.1	5.99	10.60	
N		12	14	14	14	
Median		16.15	202.5	53.25	46.63	
MAD		0.96	10.6	4.00	7.20	
=====						
Be (mg/kg)						
ALCONTROL	(1)	0.200 <	1.80	0.410	1.10	I CB
EXTAQS	(52)	0.330 <	1.91	0.520	1.23	I CB
ARCHIMEDES	(73)	5.000 <	5.00 <	-	-	U D
DATE	(89)	0.164	2.00	0.509	1.20	J CB
GGM	(98)	0.123	1.93	0.392	1.06	I D
CISCA	(112)	1.000 <	1.77	1.000 <	1.13	U D
HILL	(180)	0.200 <	1.60	0.700	1.20	
SPOOR	(305)	-	-	0.500	1.20	Z CB
PA2010LAB	(1058)	0.500 <	2.57	0.750	1.77 **	U CB
		===== Statistical Results =====				
NDA mean		-	-	-	1.168	
NDA st dev		-	-	-	0.072	
N		2	7	7	8	
Median		0.1435	1.910	0.5090	1.200	
MAD		0.0205	0.110	0.0990	0.050	
=====						

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Bi (mg/kg)						
HILL	(180)	0.400 <	0.400 <	0.400 <	0.400 <	J D
		===== No Statistical Results =====				
Ca (g/kg)						
ALCONTROL	(1)	2.90	6.50	1.70	36.0	I CB
REDUIT	(15)	3.33 **	5.47 **	1.26 **	30.6 **	I AAC
ECOSPACE	(49)	2.88	6.47	1.68	38.2	J CB
EXTAQS	(52)	2.74	6.09	1.80	37.3	I CB
MLABTW	(70)	2.97	6.62	1.83	34.7	I CB
DATE	(89)	2.92	6.15	1.75	36.8	J CB
CISCA	(112)	2.83	6.30	-	-	U D
LABVAL	(133)	2.66	6.06	1.66	37.2	X CB
MELILAB	(157)	2.78	6.30	1.70	35.6	U CB
HILL	(180)	2.80	6.50	1.73	36.0	J D
ARCWSG	(238)	3.14 *	6.71	1.88 *	40.4 *	I CB
ANALGEO	(300)	2.50 *	6.19	1.67	36.0	J CB
CGEA	(1030)	1.08 **	1.07 **	0.96 **	8.7 **	
		===== Statistical Results =====				
NDA mean		2.840	6.340	1.721	36.51	
NDA st dev		0.140	0.284	0.068	1.70	
N		13	13	12	12	
Median		2.827	6.300	1.700	36.00	
MAD		0.093	0.200	0.045	1.23	
Cd (mg/kg)						
ALCONTROL	(1)	0.400 <	0.550 *	0.400 <	0.400 <	I CB
ATVC	(7)	0.500 <	0.750	0.500 <	0.500 <	I CB
LKS	(27)	0.415	0.796	-	0.182	Z CB
LAF	(37)	0.400	0.576 *	-	0.106	U CB
ECOSPACE	(49)	1.000 <	1.000 <	1.000 <	1.000 <	J CB
POULAIN	(51)	0.351	0.436 **	-	0.016 *	I CB
EXTAQS	(52)	1.000 <	1.000 <	1.000 <	1.000 <	I CB
MLABTW	(70)	0.400 <	0.805	0.300 <	0.300 <	I CB
ARCHIMEDES	(73)	0.365	0.700	-	-	U D
GGM	(98)	0.405	0.761	0.135	0.236	I D
CISCA	(112)	0.405	0.773	0.300 <	0.239	U D
LABVAL	(133)	0.362	0.592	0.070 <	0.134	X CB
TYRKEY	(145)	0.365	0.718	0.114	0.207	I BAC
MELILAB	(157)	0.390	0.820	0.150 <	0.230	U CB
MERLIN	(159)	0.400	0.790	0.300 <	0.300 <	J CB
PLATINA222	(172)	0.360	0.750	0.250 <	0.250 <	J ABC
HILL	(180)	0.430	0.860	0.100 <	0.270	J D
EXACT	(190)	0.300	0.400 **	0.170 <	0.170 <	I CB
GSISMA	(214)	0.400	0.800	0.100	0.200	U CB
CHEMLAB	(228)	0.370	0.710	0.170 <	0.210	T CB
MBT	(291)	0.410	0.735	0.400 <	0.400 <	U CB
Deltares	(293)	0.440	0.860	0.170	0.330	I D
ARRET	(298)	1.320 **	3.760 **	1.570	1.770 **	J CB
ANALGEO	(300)	0.500 <	0.860	0.500 <	0.500 <	J D
SPOOR	(305)	-	-	0.350 <	0.390 *	Z CB
CHRON	(424)	0.490	1.470 **	0.490	0.770 **	I CB
CGEA	(1030)	0.086 **	0.936	0.262	0.276	
PA2010LAB	(1058)	0.450	0.360 **	0.200 <	0.200 <	U CB
		===== Statistical Results =====				
NDA mean		0.3946	0.7722	-	0.2224	
NDA st dev		0.0478	0.0901	-	0.0700	
N		21	25	7	16	
Median		0.4000	0.7610	0.1700	0.2330	
MAD		0.0350	0.0610	0.0700	0.0470	

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Co (mg/kg)						
ALCONTROL	(1)	2.00 <	15.0	5.60	9.50	I CB
ATVC	(7)	1.32	15.5	5.84	9.72	I CB
EXTAQS	(52)	1.14	14.9	5.31	9.76	I CB
MLABTW	(70)	3.00 <	14.7	5.15	8.20	I CB
ARCHIMEDES	(73)	2.00 <	16.2	-	-	U D
DATE	(89)	1.11	14.1	6.12	10.07	J CB
GGM	(98)	1.00 <	13.4	4.97	8.29	I D
CISCA	(112)	5.00 <	15.9	5.97	10.20	U D
TYRKEY	(145)	2.00 <	14.0	5.13	8.88	E AAC
MELILAB	(157)	1.11	14.9	5.57	9.36	U CB
MERLIN	(159)	5.00 <	12.5 *	5.00	7.70 *	J CB
HILL	(180)	0.80 *	15.4	6.40	9.80	J D
EXACT	(190)	1.10	17.0	5.90	9.40	I CB
CHEMLAB	(228)	1.40	16.0	6.70	11.00	T CB
ARCWSG	(238)	1.29	16.9	6.69	10.43	I CB
MBT	(291)	5.00 <	15.4	5.98	9.68	U CB
ARRET	(298)	1.30	8.8 **	3.79 *	6.58 **	J CB
ANALGEO	(300)	1.00 <	14.5	5.20	9.40	J D
SPOOR	(305)	-	-	5.60	8.90	Z CB
PA2010LAB	(1058)	1.69 **	16.3	6.18	10.40	U CB

	=====	Statistical Results				=====
NDA mean	1.212	15.24	5.698	9.563		
NDA st dev	0.158	1.29	0.653	0.875		
N	10	19	19	19		
Median	1.213	15.00	5.600	9.500		
MAD	0.105	0.91	0.449	0.600		

Cr (mg/kg)						
ALCONTROL	(1)	30.0	60.0	25.0	37.0	I CB
ATVC	(7)	32.9	-	-	47.1	I CB
LKS	(27)	23.0 *	54.1	24.2	34.0	Z CB
LAF	(37)	34.2	76.8	41.1	49.1	U CB
ECOSPACE	(49)	30.7	72.1	29.9	51.3	J CB
POULAIN	(51)	31.9	66.9	32.8	41.1	I CB
EXTAQS	(52)	32.1	70.8	33.4	45.8	I CB
MLABTW	(70)	32.2	75.9	38.5	47.7	I CB
ARCHIMEDES	(73)	29.2	72.7	-	-	U D
DATE	(89)	32.3	71.4	32.3	42.8	J CB
GGM	(98)	32.1	59.5	26.0	37.1	I D
CISCA	(112)	33.6	73.3	31.0	45.6	U D
LABVAL	(133)	27.1	49.4	29.2	28.8	
TYRKEY	(145)	34.9	63.5	25.5	40.8	I ABC
MELILAB	(157)	30.3	77.0	40.3	47.5	U CB
MERLIN	(159)	30.6	63.4	24.7	32.5	J CB
HILL	(180)	23.0 *	55.0	20.0	32.0	J D
EXACT	(190)	29.0	71.0	29.0	37.0	I CB
GSISMA	(214)	35.4	91.8 *	47.1 *	56.9	U CB
CHEMLAB	(228)	30.0	78.0	36.0	50.0	T CB
ARCWSG	(238)	34.6	71.6	32.4	43.9	I CB
IGEOLUNAM	(273)	28.6	61.1	27.0	43.5	J AAA
MBT	(291)	30.9	67.6	29.2	42.8	U CB
ARRET	(298)	13.2 **	25.6 **	10.5 *	17.3 *	J CB
ANALGEO	(300)	28.1	73.1	33.7	45.0	J CB
SPOOR	(305)	-	-	37.0	50.0	Z CB
CHRON	(424)	29.4	45.4 *	21.5	29.9	
CGEA	(1030)	20.4 **	98.5 *	34.9	43.8	Z D
LASPEE	(1036)	59.1 **	203.0 **	193.6 **	120.4 **	Z AAC
PA2010LAB	(1058)	38.2 *	101.2 **	55.9 **	69.8 **	U CB

	=====	Summary Statistics				=====
NDA mean	31.20	68.71	30.73	42.83		
NDA st dev	3.06	10.66	7.79	8.80		
N	29	28	28	29	(cont.)	

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Cr (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		31.20	68.71	30.73	42.83	
NDA st dev		3.06	10.66	7.79	8.80	
N		29	28	28	29	
Median		30.70	71.18	31.66	43.79	
MAD		2.10	7.25	5.48	6.21	
=====						
Cu (mg/kg)						
ALCONTROL	(1)	5.00 <	35.0	5.00 <	13.0	I CB
ATVC	(7)	4.72	32.4	4.73	11.9	I CB
LKS	(27)	4.62	35.9	5.17	14.0	Z CB
LAF	(37)	4.05	31.8	3.56 *	12.1	U CB
ECOSPACE	(49)	20.00 <	33.5	20.00 <	20.0 <	J CB
POULAIN	(51)	5.36	35.3	5.02	12.7	I CB
EXTAQS	(52)	4.64	34.7	5.22	13.3	I CB
MLABTW	(70)	5.00 <	35.7	5.00 <	12.3	I CB
ARCHIMEDES	(73)	4.17	33.8	-	-	U D
DATE	(89)	5.32	35.9	5.72	13.7	J CB
GGM	(98)	5.00 <	30.8	10.00 <	9.0 *	I D
CISCA	(112)	4.50	33.8	5.32	12.9	U D
BCIMUZPOL	(132)	8.70 **	33.7	9.00 **	17.1 *	J AAC
LABVAL	(133)	4.50	34.9	5.23	13.1	X CB
TYRKEY	(145)	7.55 *	38.6	8.58 **	15.0	I ABA
MELILAB	(157)	4.70	34.8	5.16	13.2	U CB
MERLIN	(159)	10.00 <	34.3	10.00 <	13.4	J CB
PLATINA222	(172)	4.18	30.5 *	4.49	12.4	J AAC
HILL	(180)	4.00	35.0	5.00	12.0	J D
EXACT	(190)	5.00 <	35.0	5.00 <	11.0	I CB
GSISMA	(214)	6.00	35.4	5.20	13.0	U CB
CHEMLAB	(228)	5.10	37.0	5.60	14.0	T CB
ARCWSG	(238)	5.22	38.6	5.60	14.0	I CB
IGEOLUNAM	(273)	5.00	32.0	6.50	14.5	J AAA
MBT	(291)	5.00 <	35.7	5.25	13.2	U CB
Deltares	(293)	20.38 **	41.3 **	8.19 **	16.1 *	I D
ARRET	(298)	4.71	22.9 **	2.79 **	9.1 *	J CB
SPOOR	(305)	-	-	8.00 <	12.0	Z CB
CHRON	(424)	7.65 *	37.8	6.80 *	16.7 *	
CGEA	(1030)	7.23	80.3 **	18.94 **	32.0 **	Z D
LASPEE	(1036)	3.81	37.2	14.61 **	6.4 **	Z AAC
KARI-NARL	(1046)	8.60 **	28.0 **	10.80 **	20.4 **	J AAA
PA2010LAB	(1058)	6.60	33.4	3.95	11.4	U CB
=====						
		===== Statistical Results =====				
NDA mean		4.903	34.81	5.193	13.02	
NDA st dev		1.173	2.03	0.736	1.46	
N		25	32	25	31	
Median		5.000	34.95	5.250	13.10	
MAD		0.820	1.35	0.520	1.01	
=====						
Fe (g/kg)						
ALCONTROL	(1)	4.20	46.0	19.0	29.0	I CB
ECOSPACE	(49)	4.36	49.8	19.5	33.4	J CB
EXTAQS	(52)	4.32	46.1	19.5	31.4	I CB
MLABTW	(70)	4.50	50.1	19.2	29.8	I CB
DATE	(89)	5.10 **	52.5	21.2	30.3	J CB
CISCA	(112)	4.53	47.7	-	-	U D
BCIMUZPOL	(132)	5.89 **	60.3 **	22.1	44.4 **	J AAC
LABVAL	(133)	4.18	44.3	18.5	27.5	X CB
MELILAB	(157)	4.33	49.1	18.3	31.2	U CB
=====						
		===== Summary Statistics =====				
NDA mean		4.356	48.20	19.84	30.44	
NDA st dev		0.237	3.16	1.76	3.47	
N		15	15	14	14	(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Fe (g/kg)	(cont.)					
HILL	(180)	3.90	48.0	21.0	28.0	J D
GSISMA	(214)	4.50	47.6	19.4	30.9	U CB
ARCWSG	(238)	4.68	58.0 **	21.5	33.1	I CB
IGEOLUNAM	(273)	4.20	39.6 *	18.1	26.6	J AAA
LASPEE	(1036)	0.99 **	1.7 **	2.0 **	1.4 **	Z AAC
PA2010LAB	(1058)	5.57 **	56.3 *	21.9	36.9	U CB

	Statistical Results			
NDA mean	4.356	48.20	19.84	30.44
NDA st dev	0.237	3.16	1.76	3.47
N	15	15	14	14
Median	4.360	48.00	19.45	30.62
MAD	0.165	2.05	1.25	2.54

Hg (µg/kg)						
ALCONTROL	(1)	60.0	100.0	70.0	90.0	I E
LKS	(27)	64.1	102.2	87.4 *	96.6	Z G
LAF	(37)	46.3 *	78.0	63.0	68.0 **	U Z
ECOSPACE	(49)	2500.0 <	2500.0 <	2500.0 <	2500.0 <	I G
EXTAQS	(52)	200.0 <	200.0 <	200.0 <	200.0 <	I G
MLABTW	(70)	100.0 <	122.4 *	100.0 <	100.0 <	I G
ARCHIMEDES	(73)	62.3	94.3	-	-	U D
GGM	(98)	60.0	104.0	77.0	95.0	I D
CISCA	(112)	60.0	96.9	74.9	86.4	U D
MERLIN	(159)	54.6	78.3	74.3	82.0	J G
PLATINA222	(172)	75.0 **	116.0	93.5 **	131.0 **	J G
HILL	(180)	100.0 <	120.0	100.0 <	100.0 <	J D
EXACT	(190)	50.0	90.0	80.0	90.0	U G
CHEMLAB	(228)	50.0 <	90.0	70.0	80.0	T G
ABMCE	(230)	56.0	100.0	80.0	91.0	\$ Z
MBT	(291)	57.3	88.0	76.1	92.1	U G
ANALGEO	(300)	45.0 *	73.0	65.0	86.0	J G
LABAMB	(878)	55.0	85.0	76.0	84.0	Z F
AGROLAB	(977)	60.7	105.1	79.3	97.7	K G
PA2010LAB	(1058)	54.9	100.7	69.1	89.9	U G

	Statistical Results			
NDA mean	57.88	96.22	74.86	89.19
NDA st dev	4.31	13.06	6.18	7.02
N	15	18	15	15
Median	57.30	98.46	76.00	90.00
MAD	2.71	8.46	4.00	5.00

K (mg/kg)						
ALCONTROL	(1)	220	3100	980	4400	I CB
REDUIT	(15)	144	857	254	1755	I CA
ECOSPACE	(49)	272	5117	1658	7622	
EXTAQS	(52)	280	4970	2060	5850	I CB
DATE	(89)	316	5097	2042	5787	J CB
CISCA	(112)	250	3936	-	-	U D
BCIMUZPOL	(132)	483 *	15206 **	6745 **	1235	J CA
LABVAL	(133)	183	2200	1210	2920	X CB
HILL	(180)	151	2200	580	2700	J D
ARCWSG	(238)	253	4565	1444	6098	I CB
LS-MRC	(978)	1275 **	1544	866	3062	AE AAA

	Statistical Results			
NDA mean	235.7	3462	1237	4079
NDA st dev	86.4	1776	805	2764
N	11	11	10	10
Median	253.2	3936	1327	3731
MAD	62.8	1181	588	2016

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
La (mg/kg)						
DATE	(89)	3.26	20.9	2.63	11.4	J CB
HILL	(180)	2.90	28.0	3.00	13.0	J D
===== Statistical Results (no NDA) =====						
N		2	2	2	2	
Median		3.080	24.47	2.815	12.18	
MAD		0.180	3.54	0.185	0.83	
=====						
Li (mg/kg)						
DATE	(89)	3.82	40.0	21.9	32.5	J CB
BCIMUZPOL	(132)	3.91	47.3	25.1	33.7	J AAC
HILL	(180)	2.30	31.0	22.0	23.0	J D
===== Statistical Results (no NDA) =====						
N		3	3	3	3	
Median		3.820	39.97	22.00	32.45	
MAD		0.090	7.36	0.12	1.29	
=====						
Mg (mg/kg)						
ALCONTROL	(1)	410	5300	2300	8600 *	- CB
ECOSPACE	(49)	432	5895	2551	9640	J CB
EXTAQS	(52)	430	5770	2850	9400	I CB
MLABTW	(70)	455	6381	3179	9695	I CB
DATE	(89)	491	6039	2872	9290	J CB
CISCA	(112)	459	5852	-	-	U D
BCIMUZPOL	(132)	332	3513 *	1676	9468	J AAC
LABVAL	(133)	319	4430	2400	7680 **	X CB
MELILAB	(157)	447	6915	3313	9934	U CB
HILL	(180)	340	4600	1910	7700 **	J D
ARCWSG	(238)	488	6147	2794	9399	I CB
CGEA	(1030)	559	1055 **	877 **	3409 **	
===== Statistical Results =====						
NDA mean		438.7	5792	2641	9491	
NDA st dev		60.8	815	507	406	
N		12	12	11	11	
Median		439.5	5811	2551	9399	
MAD		38.8	541	321	295	
=====						
Mn (mg/kg)						
ALCONTROL	(1)	190	440	370	890	I BA
ECOSPACE	(49)	199	430	369	950	J CB
EXTAQS	(52)	201	430	396	908	I CB
MLABTW	(70)	209	420	366	910	I CB
DATE	(89)	201	402	377	926	J CB
CISCA	(112)	208	439	-	-	U D
BCIMUZPOL	(132)	158 *	274 **	253 **	752 **	J AAC
LABVAL	(133)	189	399	360	886	X CB
TYRKEY	(145)	191	427	373	971	I AAA
MELILAB	(157)	196	430	360	929	U CB
HILL	(180)	200	460	430	1020	J D
GSISMA	(214)	209	480	393	911	U CB
ARCWSG	(238)	233 *	459	417	1061 *	I CB
IGEOLUNAM	(273)	167	360	330	840	J AAA
ANALGEO	(300)	182	422	361	941	J CB
CGEA	(1030)	246 **	966 **	445 *	1353 **	
LASPEE	(1036)	28 **	64 **	120 **	58 **	Z AAC
KARI-NARL	(1046)	173	391	356	882	J AAA
===== Summary Statistics =====						
NDA mean		196.2	429.3	375.3	918.7	
NDA st dev		15.1	39.7	28.3	51.0	
N		19	19	18	18	(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Mn (mg/kg) (cont.)						
PA2010LAB	(1058)	261 **	513 *	429	1087 **	U CB
===== Statistical Results =====						
NDA mean		196.2	429.3	375.3	918.7	
NDA st dev		15.1	39.7	28.3	51.0	
N		19	19	18	18	
Median		199.0	430.0	369.5	918.7	
MAD		10.0	28.8	18.5	34.8	
=====						
Mo (mg/kg)						
EXTAQS	(52)	0.640	0.850	1.030	0.500	I D
ARCHIMEDES	(73)	0.544	0.763	-	-	U D
GGM	(98)	1.500 <	1.500 <	1.500 <	1.500 <	I D
CISCA	(112)	5.000 <	5.000 <	0.883	1.000 <	U D
HILL	(180)	0.600	0.500	1.000	0.400 <	J D
CHEMLAB	(228)	1.000 <	1.000 <	1.000 <	1.000 <	T CB
ARRET	(298)	6.790	2.160	1.250	0.630	J CB
ANALGEO	(300)	0.480	0.800	0.910	0.450	J D
SPOOR	(305)	-	-	1.000 <	1.000 <	Z CB
===== Statistical Results (no NDA) =====						
N		5	5	5	3	
Median		0.6000	0.8000	1.0000	0.5000	
MAD		0.0560	0.0500	0.0900	0.0500	
=====						
N (g/kg)						
FELDA	(13)	1.20 *	2.95 *	2.58 **	1.28 *	L E
WAGENINGEN	(14)	1.90	4.00	3.10	1.90	L E
REDUIT	(15)	1.76	3.58	3.33	1.78	
LAF	(37)	1.80	4.00	3.20	1.83	L O
MSIRI	(48)	1.73	4.01	3.24	1.80	L O
EDAFONEI	(57)	1.88	3.80	3.25	1.77	L O
MLABTW	(70)	1.40	3.54	2.64 *	1.21 *	L E
SAINTE-FOY	(80)	1.91	4.04	3.31	1.79	
UAK MARDI	(120)	2.10	4.30	3.50	2.00	I CB
BCIMUZPOL	(132)	2.35 *	4.93 *	3.93 *	2.19	J E
LABORECOF	(194)	1.78	4.02	3.58	1.94	X Z
MARELI	(204)	1.56	3.65	2.99	1.65	L O
AGROLAB-SL	(264)	1.63	3.80	3.20	1.63	L O
LUNUWILA	(270)	1.93	4.12	3.45	1.93	L E
SPAL	(282)	1.30 *	2.90 *	2.60 *	1.40	L E
SMBPLNUS	(315)	1.68	3.43	3.15	1.61	J O
FVABW	(322)	1.87	3.71	3.37	1.61	X RC
SMART	(326)	1.89	4.17	3.36	1.88	
CHRON	(424)	2.36 *	3.76	3.18	1.61	X Z
PLZMBZEM	(806)	1.67	3.67	3.17	1.72	L O
IRRI	(843)	1.95	4.16	3.59	1.98	L E
PASCAanalab	(870)	1.92	3.99	3.36	1.84	L O
LABAMB	(878)	1.62	4.36	3.67	2.20	L O
RF-R&D	(905)	1.61	3.66	3.05	1.71	K E
LABGLEB	(922)	-	3.88	-	1.82	
RHODE	(960)	1.71	2.62 **	2.96	1.60	L E
SAC-CAL	(973)	1.85	4.22	3.38	1.90	L O
LS-MRC	(978)	1.84	3.52	3.58	1.45	AE O
LABZIB	(1013)	1.60	3.37	2.90	1.55	L O
SMART-BGR	(1016)	1.50	4.02	3.07	1.54	L Z
WIKASO	(1040)	1.85	4.08	3.26	1.88	L O
KARI-NARL	(1046)	2.08	3.20	3.32	1.90	L O
===== Summary Statistics =====						
NDA mean		1.785	3.865	3.265	1.766	
NDA st dev		0.196	0.368	0.228	0.220	
N		31	32	31	32	(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
N (g/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		1.785	3.865	3.265	1.766	
NDA st dev		0.196	0.368	0.228	0.220	
N		31	32	31	32	
Median		1.800	3.840	3.250	1.785	
MAD		0.130	0.250	0.150	0.150	
=====						
Na (mg/kg)						
ALCONTROL	(1)	50.0 <	170	51	170	I CB
ECOSPACE	(49)	200.0 <	206	200 <	262	J CB
EXTAQS	(52)	69.4	234	136	249	I CB
DATE	(89)	54.4	234	126	247	J CB
CISCA	(112)	47.9	185	-	-	U D
BCIMUZPOL	(132)	80.4	1091 **	620	675 **	J CA
LABVAL	(133)	54.5	142	79	176	X CB
HILL	(180)	40.0 <	108	40 <	127	J D
ARCWSG	(238)	47.2	190	74	224	I CB
		===== Statistical Results =====				
NDA mean		-	186.1	-	212.3	
NDA st dev		-	58.8	-	60.4	
N		6	9	6	8	
Median		54.45	189.8	102.7	235.3	
MAD		6.90	44.2	30.9	43.0	
=====						
Ni (mg/kg)						
ALCONTROL	(1)	7.80	41.0	12.0	28.0	I CB
ATVC	(7)	7.73	44.7	13.2	28.1	I CB
LKS	(27)	4.20 *	34.3	10.4	23.9	Z CB
LAF	(37)	5.66	39.4	10.6	26.7	U CB
ECOSPACE	(49)	20.00 <	44.8	20.0 <	29.9	J CB
POULAIN	(51)	7.87	37.4	11.2	24.3	I CB
EXTAQS	(52)	8.72	49.3	15.0	32.2	I CB
MLABTW	(70)	6.68	45.8	12.9	28.4	I CB
ARCHIMEDES	(73)	7.04	43.0	-	-	U D
DATE	(89)	6.47	43.2	12.1	34.5	J CB
GGM	(98)	7.30	40.4	10.6	25.7	I D
CISCA	(112)	8.15	44.2	12.9	29.9	U D
LABVAL	(133)	7.21	34.5	12.6	23.1	X CB
TYRKEY	(145)	7.71	39.4	11.0	26.3	I ABC
MELILAB	(157)	7.21	43.0	12.5	27.3	U CB
MERLIN	(159)	15.00 <	38.8	15.0 <	23.8	J CB
PLATINA222	(172)	6.38	41.5	10.0	27.5	J AAC
HILL	(180)	4.00 **	40.0	10.0	28.0	J D
EXACT	(190)	7.50	44.0	12.0	26.0	I CB
GSISMA	(214)	8.50	48.5	14.1	30.6	U CB
CHEMLAB	(228)	7.80	48.0	14.0	32.0	T CB
ARCWSG	(238)	9.82	49.9	15.5	31.8	I CB
IGEOLUNAM	(273)	9.00	37.0	11.0	29.0	J AAC
MBT	(291)	7.87	46.9	13.3	30.6	U CB
Deltares	(293)	8.96	56.7 *	15.9	35.1	I D
ARRET	(298)	2.51 **	19.5 **	4.0 **	16.0 **	J CB
ANALGEO	(300)	7.10	45.1	12.7	30.5	J CB
CHRON	(424)	7.90	33.3	12.2	25.1	U CB
CGEA	(1030)	6.69	82.9 **	12.0	21.1	Z D
LASPEE	(1036)	4.99 *	23.1 **	20.2 **	8.6 **	Z AAC
PA2010LAB	(1058)	8.33	45.5	13.7	29.7	U CB
		===== Statistical Results =====				
NDA mean		7.560	42.71	12.33	28.13	
NDA st dev		1.163	5.27	1.90	3.72	
N		29	31	28	30	
Median		7.500	43.00	12.35	28.00	
MAD		0.810	3.60	1.35	2.55	

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
P (mg/kg)						
ALCONTROL	(1)	490	1100	490	760	I CB
REDUIT	(15)	248 **	636 **	92 **	499 *	I E
MSIRI	(48)	475	1332	597	832	J E
POULAIN	(51)	454	932	404	619	I CB
EXTAQS	(52)	512	1220	590	824	I CB
MLABTW	(70)	509	1214	540	718	L E
DATE	(89)	468	1179	499	761	J CB
CISCA	(112)	608 **	1459 *	-	-	U D
BCIMUZPOL	(132)	493	1264	615	833	J E
LABVAL	(133)	480	1120	529	748	X CB
TYRKEY	(145)	448	1183	433	815	I E
MELILAB	(157)	446	1222	524	744	U CB
HILL	(180)	490	1150	550	720	J D
ARCWSG	(238)	485	1043	465	661	I CB
MBT	(291)	531	1270	569	842	U CB
ANALGEO	(300)	455	1217	631	783	J CB
LABAMB	(878)	371 *	1010	398	743	Z Z
LS-MRC	(978)	394 *	939	444	585	AE E
PA2010LAB	(1058)	574 *	1425	631	877	U CB

	Statistical Results			
NDA mean	479.4	1184	527.0	763.8
NDA st dev	42.5	128	94.5	93.1
N	19	19	18	18
Median	480.0	1183	526.5	754.0
MAD	29.5	83	67.0	65.5

Pb (mg/kg)						
ALCONTROL	(1)	17.0	71.0	19.0	33.0	I BA
ATVC	(7)	16.4	63.4	17.0	-	I CB
LKS	(27)	17.7	59.4	17.7	26.0	Z CB
LAF	(37)	17.9	73.2	21.4	33.6	U CB
ECOSPACE	(49)	16.1	71.8	17.8	28.0	J CB
POULAIN	(51)	18.3	71.7	22.3 *	30.0	I CB
EXTAQS	(52)	16.7	74.1	19.9	31.4	I CB
MLABTW	(70)	15.9	68.2	18.6	27.8	I CB
ARCHIMEDES	(73)	16.9	80.5	-	-	U D
DATE	(89)	15.7	70.5	19.5	28.0	J CB
GGM	(98)	17.4	75.3	19.8	31.6	I D
CISCA	(112)	17.0	72.2	18.3	30.6	U D
LABVAL	(133)	16.4	66.4	18.3	26.7	X CB
TYRKEY	(145)	13.3 *	72.9	16.2	28.1	I ABC
MELILAB	(157)	16.6	63.5	19.4	30.4	U CB
MERLIN	(159)	17.2	63.2	18.9	23.4	J CB
PLATINA222	(172)	13.4 *	71.6	15.3 *	25.8	J ABC
HILL	(180)	18.7	81.0	22.0	31.0	J D
EXACT	(190)	16.0	71.0	18.0	26.0	I CB
GSISMA	(214)	17.3	67.2	17.7	27.9	U CB
CHEMLAB	(228)	15.0	54.0 *	13.0 **	20.0 *	T CB
ARCWSG	(238)	19.9 *	76.7	21.0	29.4	I CB
IGEOLUNAM	(273)	16.5	68.5	18.0	29.0	J AAC
MBT	(291)	18.0	69.3	19.8	32.5	U CB
Deltares	(293)	25.5 **	75.5	20.4	32.5	I D
ARRET	(298)	14.7	64.7	20.1	27.6	J CB
ANALGEO	(300)	15.6	73.3	18.7	32.0	J D
SPOOR	(305)	-	-	19.0	28.0	Z CB
CHRON	(424)	16.7	63.2	20.3	27.7	
CGEA	(1030)	21.8 **	113.8 **	24.3 **	33.9	Z D
LASPEE	(1036)	17.5	76.4	48.1 **	26.0	Z AAC
PA2010LAB	(1058)	19.5 *	66.8	19.1	27.3	U CB

	Summary Statistics			
NDA mean	16.82	70.39	19.05	29.01
NDA st dev	1.31	6.06	1.58	3.06
N	31	31	31	30

(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Pb (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		16.82	70.39	19.05	29.01	
NDA st dev		1.31	6.06	1.58	3.06	
N		31	31	31	30	
Median		16.90	71.00	19.00	28.07	
MAD		0.90	4.20	1.07	2.08	
		=====				
Rb (mg/kg)						
HILL	(180)	1.70	19.6	14.5	22.0	J D
		===== No Statistical Results =====				
S (mg/kg)						
ALCONTROL	(1)	1100	630	350	2200 **	I BA
EXTAQS	(52)	899	570	350	1850	I CB
MLABTW	(70)	1013	586	330	1793	I CB
DATE	(89)	981	557	354	1849	J CB
CISCA	(112)	1215 *	794 **	-	-	U D
LABVAL	(133)	991	560	342	1880	
TYRKEY	(145)	802	694 **	268 **	1758 *	I P
MELILAB	(157)	956	590	342	1880	U CB
ARCWSG	(238)	1011	579	346	1914	I CB
ANALGEO	(300)	871	588	343	1895	J CB
LABGLEB	(922)	-	596	-	1966	
		===== Statistical Results =====				
NDA mean		971.4	581.4	345.4	1872	
NDA st dev		89.7	24.5	9.3	51	
N		10	11	9	10	
Median		986.0	588.0	343.0	1880	
MAD		58.5	18.0	7.0	33	
		=====				
Sb (mg/kg)						
EXTAQS	(52)	0.340	0.77	0.310	0.340	I D
ARCHIMEDES	(73)	1.000 <	0.63	-	-	U D
GGM	(98)	1.000 <	1.00 <	1.000 <	1.000 <	I D
CISCA	(112)	2.000 <	2.00 <	3.000 <	3.000 <	U D
HILL	(180)	0.400 <	0.40 <	0.400 <	0.400 <	J D
CHEMLAB	(228)	2.000 <	1.40	1.000 <	1.000 <	T F
SPOOR	(305)	-	-	4.000 <	4.000 <	Z CB
PA2010LAB	(1058)	0.540	1.92	0.880	1.100	U CB
		===== Statistical Results (no NDA) =====				
N		2	4	2	2	
Median		0.4400	1.085	0.5950	0.7200	
MAD		0.1000	0.388	0.2850	0.3800	
		=====				
Se (mg/kg)						
EXTAQS	(52)	0.500 <	1.34	0.500 <	0.500 <	I D
ARCHIMEDES	(73)	9.000 <	10.00 <	-	-	U D
POLASP	(96)	0.350	2.63	0.470	0.960	
GGM	(98)	5.000 <	5.00 <	5.000 <	5.000 <	I D
CISCA	(112)	2.000 <	4.08	5.000 <	2.462	U D
HILL	(180)	20.000 <	20.00 <	20.000 <	20.000 <	J D
CHEMLAB	(228)	2.000 <	2.00 <	2.000 <	2.000 <	T BAD
SPOOR	(305)	-	-	10.000 <	10.000 <	Z CB
CHRON	(424)	0.118	0.38	0.094	0.034	F
PA2010LAB	(1058)	0.167	0.82	0.206	0.331	U F
		===== Statistical Results (no NDA) =====				
N		3	5	3	4	
Median		0.1670	1.340	0.2060	0.6455	
MAD		0.0490	0.963	0.1120	0.4630	

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Sn (mg/kg)						
ECOSPACE	(49)	30.00 <	30.00 <	30.00 <	30.00 <	J CB
EXTAQS	(52)	0.89	2.20	0.99	2.15	I CB
MLABTW	(70)	1.80 <	2.28	1.80 <	1.80 <	I CB
ARCHIMEDES	(73)	3.00 <	1.97	-	-	U D
GGM	(98)	5.00 <	5.00 <	5.00 <	5.00 <	I D
CISCA	(112)	5.00 <	1.96	5.00 <	5.00 <	U D
HILL	(180)	1.00 <	1.60	1.00 <	1.60	J D
CHEMLAB	(228)	3.00 <	3.00 <	3.00 <	3.00 <	T CB
SPOOR	(305)	-	-	3.00 <	3.00 <	Z CB
CGEA	(1030)	1.20	7.01	2.76	2.81	Z D
PA2010LAB	(1058)	1.14	2.60	1.44	2.62	U CB
===== Statistical Results (no NDA) =====						
N		3	7	3	4	
Median		1.140	2.200	1.440	2.385	
MAD		0.063	0.241	0.450	0.330	
=====						
Sr (mg/kg)						
ALCONTROL	(1)	5.00 <	30.0	13.0	110	I BA
DATE	(89)	4.30	30.6	12.6	104	J CB
HILL	(180)	4.00	28.0	13.2	102	J D
ANALGEO	(300)	5.00	34.9	14.3	105	J CB
===== Statistical Results (no NDA) =====						
N		3	4	4	4	
Median		4.300	30.32	13.10	104.5	
MAD		0.300	1.32	0.29	1.5	
=====						
Th (mg/kg)						
SPOOR	(305)	-	-	6.00 <	6.00 <	Z CB
===== No Statistical Results =====						
Ti (mg/kg)						
EXTAQS	(52)	123.0	247	69.3	388	
CISCA	(112)	85.5	150	-	-	U D
ARCWSG	(238)	67.4	116	20.3	229	I CB
===== Statistical Results (no NDA) =====						
N		3	3	2	2	
Median		85.47	149.6	44.81	308.7	
MAD		18.11	33.5	24.49	79.3	
=====						
Tl (mg/kg)						
EXTAQS	(52)	0.0700	0.560	0.240	0.280	I D
ARCHIMEDES	(73)	5.0000 <	5.000 <	-	-	U D
GGM	(98)	1.0000 <	1.000 <	1.000 <	1.000 <	I D
CISCA	(112)	5.0000 <	5.000 <	-	-	U D
HILL	(180)	0.2000 <	0.300	0.200 <	0.200 <	J D
SPOOR	(305)	-	-	9.000 <	9.000 <	Z CB
===== Statistical Results (no NDA) =====						
N		1	2	1	1	
Median		0.07000	0.4300	0.2400	0.2800	
MAD		-	0.1300	-	-	
=====						

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
U (mg/kg)						
EXTAQS	(52)	0.210	1.67	0.450	0.770	I D
HILL	(180)	0.180	1.81	0.470	0.640	J D
===== Statistical Results (no NDA) =====						
N		2	2	2	2	
Median		0.1950	1.740	0.4600	0.7050	
MAD		0.0150	0.070	0.0100	0.0650	
=====						
V (mg/kg)						
ALCONTROL	(1)	39.0	77.0 *	31.0	44.0	I CB
EXTAQS	(52)	40.3	98.0	42.4	56.4 *	I CB
MLABTW	(70)	36.1	95.1	42.3	50.7	I CB
ARCHIMEDES	(73)	36.5	86.0	-	-	U D
DATE	(89)	43.5	88.9	38.2	48.3	J CB
CISCA	(112)	39.9	86.6	34.4	49.0	U D
HILL	(180)	100.0 <	100.0 <	100.0 <	100.0 <	J D
EXACT	(190)	37.0	92.0	36.0	44.0	I CB
CHEMLAB	(228)	33.0	85.0	36.0	50.0	T CB
ANALGEO	(300)	34.7	87.3	35.3	48.4	J CB
SPOOR	(305)	-	-	39.0	52.0	Z CB
WBT	(866)	50.8 **	216.8 **	93.2 **	158.5 **	G CB
PA2010LAB	(1058)	41.1	123.5 **	61.8 **	79.9 **	U CB
===== Statistical Results =====						
NDA mean		38.16	88.55	37.14	49.07	
NDA st dev		3.69	5.75	5.12	3.07	
N		11	11	11	11	
Median		39.00	88.92	38.23	50.00	
MAD		2.53	3.92	3.85	2.00	
=====						
Zn (mg/kg)						
ALCONTROL	(1)	20.0 <	210	50.0	89.0	I BA
ATVC	(7)	22.0	214	58.7	89.5	I CB
REDUIT	(15)	17.3	114 **	30.2 **	68.3 *	I AAC
LKS	(27)	20.5	177	50.7	69.1 *	Z CB
LAF	(37)	22.2	209	55.6	92.6	U CB
ECOSPACE	(49)	20.0 <	215	50.4	84.7	J CB
POULAIN	(51)	19.4	170	45.9	68.2 *	I CB
EXTAQS	(52)	19.8	217	54.6	84.9	I CB
MLABTW	(70)	20.9	212	51.7	80.5	I CB
ARCHIMEDES	(73)	16.6	195	-	-	U D
DATE	(89)	22.6	209	54.0	87.1	J CB
GGM	(98)	16.3	183	42.4 *	71.2 *	I D
CISCA	(112)	19.1	202	49.9	81.3	U D
BCIMUZPOL	(132)	18.7	168 *	44.0	71.7	J AAC
LABVAL	(133)	17.8	195	54.1	82.1	X CB
TYRKEY	(145)	17.9	214	51.0	89.1	I AAA
MELILAB	(157)	19.4	203	53.7	84.5	U CB
MERLIN	(159)	19.8	192	50.0	81.2	J CB
PLATINA222	(172)	20.0	49 **	51.3	85.7	J AAC
HILL	(180)	16.0	200	49.0	79.0	J D
EXACT	(190)	19.0	230	51.0	81.0	I CB
GSISMA	(214)	20.6	219	55.5	89.6	U CB
CHEMLAB	(228)	21.0	210	56.0	97.0	T CB
ARCWSG	(238)	23.1	223	57.3	83.7	I CB
IGEOLUNAM	(273)	17.6	198	45.0	88.0	J AAA
MBT	(291)	20.2	210	53.4	86.9	U CB
Deltares	(293)	26.7 *	239	58.4	92.1	I D
ARRET	(298)	10.3 **	127 **	25.7 **	69.2 *	J CB
===== Summary Statistics =====						
NDA mean		19.47	206.9	52.24	84.87	
NDA st dev		2.53	19.0	4.36	6.63	
N		32	34	33	33	(cont.)

ISE 2012.1 - Acid extractable (So-called totals)

Sample		997	863	865	962	MIC
Zn (mg/kg)	(cont.)					
ANALGEO	(300)	21.2	217	51.6	89.1	J CB
CHRON	(424)	18.1	190	50.3	84.5	CB
CGEA	(1030)	18.2	958 **	89.6 **	147.2 **	
LASPEE	(1036)	56.4 **	264 *	176.2 **	112.2 **	Z AAC
KARI-NARL	(1046)	95.8 **	148 **	87.8 **	150.2 **	J AAA
PA2010LAB	(1058)	34.9 **	222	58.4	115.8 **	U CB

	=====	Statistical Results				=====
NDA mean	19.47	206.9	52.24	84.87		
NDA st dev	2.53	19.0	4.36	6.63		
N	32	34	33	33		
Median	19.80	209.2	51.60	84.90		
MAD	1.83	13.2	3.00	4.38		

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample		997	863	865	962	MIC
Ag (µg/kg)						
LABTIUM	(16)	70.0	1240	90.0	110.0	
AL-West	(78)	1000.0 <	-	-	-	U CB
US	(83)	30.0	72	82.0	89.0	U CB
HHAUFU	(136)	200.0 <	200 <	200.0 <	200.0 <	+ CB
MUMPFROG	(275)	86.0	142	90.0	92.0	I D
LABAMB	(878)	100.0 <	100 <	100.0 <	100.0 <	I CB
KUDAROOT	(1063)	0.1	0	0.1	0.1	U D

	Statistical Results (no NDA)			
N	4	4	4	4
Median	50.00	107.0	86.00	90.50
MAD	28.00	70.9	4.00	10.50

Al (g/kg)						
WAGENINGEN	(14)	4.47	50.0	20.8	28.8	I CB
LABTIUM	(16)	2.93 **	31.5 *	12.0 **	17.5 **	
HAMELN	(25)	4.55	50.9	20.5	27.7	I CB
LAS	(42)	4.19	46.4	19.0	25.4	I CB
LRSCONTROL	(63)	4.19	42.5	17.6	25.7	I CB
US	(83)	2.45 **	18.5 **	7.3 **	12.1 **	U CB
BRAUNSWH	(86)	4.58	46.2	20.8	26.4	I CB
ABMCE	(230)	4.25	49.0	20.0	26.5	I CB
SLAF	(260)	4.60	53.8	23.5	31.9	I CB
MUMPFROG	(275)	4.39	48.8	19.1	28.8	I CB
FFEEBW	(284)	4.63	52.7	22.0	29.9	I CB
HLVAKASSEL	(313)	4.62	50.5	19.5	28.0	I CB
NFVGOE	(321)	5.33 *	51.6	21.9	30.0	I CB
FVABW	(322)	4.45	51.3	21.1	29.6	T CB
GLAGC	(327)	4.60	54.1	21.2	28.9	+ CB
VILJAVUJSP	(419)	3.35 **	43.3	16.7	24.7	I CB
ANAPBO	(448)	3.81	36.5	20.8	27.3	U CB
LABAMB	(878)	3.90	39.0	16.5 *	23.0	I CB
CRC	(884)	5.66 **	76.9 **	31.8 **	43.6 **	
KUDAROOT	(1063)	5.02	36.1	21.6	33.9 *	U D

	Statistical Results			
NDA mean	4.454	48.10	20.43	27.88
NDA st dev	0.354	6.41	1.90	3.00
N	20	20	20	20
Median	4.460	48.89	20.64	27.84
MAD	0.240	4.34	1.32	2.12

As (mg/kg)						
OOSTERBEEK	(4)	2.37	27.8	8.50	14.4 *	U D
WAGENINGEN	(14)	2.73	23.6	7.80	12.1	I CB
LABTIUM	(16)	2.28	26.0	7.95	14.0	
HAMELN	(25)	2.53	20.3	7.38	11.2	I D
AL-West	(78)	3.80 <	-	-	-	U CB
US	(83)	1.81	17.1 *	7.47	10.2	U CB
BRAUNSWH	(86)	2.21	23.0	7.43	12.0	I D
VICTORY	(123)	10.70 **	41.4 **	14.10 **	78.6 **	
CPH340XYC	(134)	2.04	21.3	6.76	11.0	I F
HHAUFU	(136)	2.07	25.0	8.17	12.2	+ CB
RISWC	(174)	1.92	20.8	7.48	10.9	I F
LEIPZIGMOE	(195)	2.57	22.3	-	12.1	
MARELI	(204)	8.98 **	59.8 **	21.70 **	34.5 **	I D
ABMCE	(230)	1.00 < **	24.7	7.31	11.9	I CB
MUMPFROG	(275)	2.32	23.7	7.35	12.8	I D
FFEEBW	(284)	2.58	26.0	8.12	13.0	I CB

	Summary Statistics			
NDA mean	2.214	23.19	7.444	11.89
NDA st dev	0.260	2.71	0.581	1.16
N	28	29	28	29

(cont.)

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample	997	863	865	962	MIC
As (mg/kg) (cont.)					
HLVAKASSEL (313)	2.16	22.7	7.43	12.5	I F
FVABW (322)	2.10	23.1	7.30	12.0	T CB
GLAGC (327)	2.30	23.6	7.20	11.7	+ CB
VILJAVUUSP (419)	2.10	24.1	7.16	11.5	I CB
ANAPBO (448)	2.66	16.1 *	6.28 *	8.9 *	U F
CHEMHAL (877)	2.60	21.2	7.31	10.6	IT CB
LABAMB (878)	2.20	22.0	7.00	12.0	I CB
CRC (884)	2.23	21.3	6.99	10.7	U CB
CAC (885)	2.20	24.3	8.10	12.4	I CB
SAC-CAL (973)	2.34	27.0	8.89 *	14.5 *	I D
AGROLAB (977)	2.04	26.1	8.71 *	14.4 *	I BA
LDAR02 (984)	1.95	22.8	7.70	12.2	I Z
KUDAROOT (1063)	1.97	19.3	6.87	11.2	U D
LABSOV (1070)	2.05	23.2	7.20	11.6	I D

	Statistical Results			
NDA mean	2.214	23.19	7.444	11.89
NDA st dev	0.260	2.71	0.581	1.16
N	28	29	28	29
Median	2.220	23.20	7.430	12.01
MAD	0.175	1.90	0.400	0.80

B (mg/kg)					
LABTIUM (16)	5.00 <	6.5	5.0 <	21.5	
IUNGPUL (32)	4.29	25.0	17.5	45.0	I CB
BRAUNSCHW (86)	2.60	15.7	12.8	32.3	I CB
HILL (180)	6.00 <	7.0	6.0 <	20.0	
MARELI (204)	10.54	43.0	40.8	66.1 *	I D
VILJAVUUSP (419)	9.06	23.3	19.9	45.1	I CB
LABAMB (878)	2.70	12.5	8.6	33.0	I CB
CRC (884)	2.16	39.1	32.7	52.3	
KUDAROOT (1063)	2.98	28.8	24.8	40.6	U D

	Statistical Results			
NDA mean	-	21.45	-	38.46
NDA st dev	-	15.34	-	13.07
N	7	9	7	9
Median	2.980	23.27	19.90	40.60
MAD	0.820	10.77	7.15	8.27

Ba (mg/kg)					
LABTIUM (16)	14.6	203	49.7	44.1	
HAMELN (25)	16.3	218	59.1	54.8	I CB
AL-West (78)	17.1	-	-	-	U CB
US (83)	13.9	125 **	42.7	29.7	U CB
VICTORY (123)	20.3	233	54.7	44.4	I CB
CPH340XYC (134)	15.8	191	51.3	45.6	I CB
HHAUFU (136)	15.6	233	59.0	57.0	+ CB
MUMPFROG (275)	15.2	229	60.8	59.5	I CB
NFVGOE (321)	20.0	240	70.0	70.0	I CB
GLAGC (327)	18.0	240	65.4	65.0	+ CB
ANAPBO (448)	18.0	231	80.8	77.2	U CB
LABAMB (878)	15.9	210	55.0	53.0	I CB
CRC (884)	19.2	337 **	99.8 **	121.0 **	
KUDAROOT (1063)	18.9	206	73.7	89.3	U D

	Statistical Results			
NDA mean	16.92	223.9	59.32	56.57
NDA st dev	2.15	16.9	11.47	18.01
N	14	13	13	13
Median	16.72	229.0	59.10	57.00
MAD	1.40	11.0	7.80	12.60

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Sample		997	863	865	962	MIC
Be (mg/kg)						
LABTIUM	(16)	0.130	2.04	0.460	1.30	
HAMELN	(25)	0.165	1.90	0.524	1.23	I D
AL-West	(78)	0.200 <	-	-	-	U CB
US	(83)	0.104	1.14 **	0.346	0.74 **	U CB
BRAUNSCHW	(86)	0.161	2.16	0.547	1.41	I D
VICTORY	(123)	0.140	2.20	0.430	1.09	I CB
CPH340XYC	(134)	0.170	2.18	0.520	1.42	I D
HHAFU	(136)	0.138	2.17	0.650	1.40	+ CB
ABMCE	(230)	0.180	2.11	0.530	1.21	I CB
MUMPFROG	(275)	0.153	2.12	0.539	1.42	I D
HLVAKASSEL	(313)	0.134	1.94	0.476	1.29	I D
GLAGC	(327)	0.140	2.20	0.550	1.40	+ CB
ANAPBO	(448)	0.160	2.12	0.630	1.48	U CB
LABAMB	(878)	0.120	2.10	0.370	1.20	I CB
CRC	(884)	0.550 <	2.50 **	0.732 *	1.62	
CAC	(885)	0.500 <	1.78 *	0.460	1.10	I CB
KUDAROOT	(1063)	0.141	1.95	0.619	1.26	U D

	Statistical Results			
NDA mean	0.1461	2.108	0.5206	1.318
NDA st dev	0.0229	0.118	0.0993	0.160
N	14	16	16	16
Median	0.1405	2.115	0.5270	1.295
MAD	0.0160	0.080	0.0670	0.110

Bi (mg/kg)						
LABTIUM	(16)	0.140	0.440	0.230	0.390	
HAMELN	(25)	0.107	0.326	0.164	0.264	I D
BRAUNSCHW	(86)	0.079	0.347	0.177	0.301	I D
ANAPBO	(448)	-	6.870	2.950	3.420	U CB

	Statistical Results (no NDA)			
N	3	4	4	4
Median	0.1070	0.3935	0.2035	0.3455
MAD	0.0280	0.0570	0.0330	0.0630

Ca (g/kg)						
WAGENINGEN	(14)	2.81	6.61	1.80	37.9	I CB
LABTIUM	(16)	2.60	6.36	1.66	36.1	
HAMELN	(25)	3.01	6.24	1.77	36.4	I CB
LAS	(42)	2.68	6.22	1.66	36.9	I CB
LRSCONTROL	(63)	2.66	5.62 *	1.55	36.6	I CB
US	(83)	2.36 *	5.78	1.51	34.6	U CB
BRAUNSCHW	(86)	2.74	5.67 *	1.68	34.4	I CB
CPH340XYC	(134)	2.87	6.32	1.74	38.2	I CB
HHAFU	(136)	2.95	6.62	1.85	38.0	+ CB
HILL	(180)	2.55	5.93	1.60	34.3	
LEIPZIGMOE	(195)	2.67	-	1.71	33.5	
ABMCE	(230)	2.77	6.47	1.69	37.8	I CB
SLAF	(260)	2.94	6.24	1.88	36.7	I CB
MUMPFROG	(275)	2.84	6.11	1.82	36.2	I CB
FFEEBW	(284)	3.15	6.81	1.81	36.7	I CB
HLVAKASSEL	(313)	2.89	6.35	1.82	37.3	I CB
NFVGoe	(321)	3.44 **	6.50	1.90	38.1	I CB
FVABW	(322)	2.80	5.87	1.68	38.7	T CB
GLAGC	(327)	2.71	6.40	1.82	36.9	+ CB
VILJAVUUSP	(419)	2.64	6.12	1.68	36.6	I CB
ANAPBO	(448)	3.13	6.60	2.00	37.0	U CB
LABAMB	(878)	3.08	6.35	1.80	35.5	I CB

	Summary Statistics			
NDA mean	2.794	6.326	1.757	36.72
NDA st dev	0.205	0.322	0.130	1.62
N	25	24	25	25

(cont.)

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Sample		997	863	865	962	MIC
Ca (g/kg) (cont.)						
SAC-CAL	(973)	2.71	6.58	1.80	36.0	I CB
AGROLAB	(977)	2.64	6.25	1.39 *	38.2	AA
KUDAROOT	(1063)	2.94	6.61	1.87	32.9 *	U D

	Statistical Results			
NDA mean	2.794	6.326	1.757	36.72
NDA st dev	0.205	0.322	0.130	1.62
N	25	24	25	25
Median	2.800	6.335	1.770	36.66
MAD	0.140	0.221	0.090	1.14

Cd (mg/kg)						
OOSTERBEEK	(4)	0.404	0.808	0.144	0.269	U D
WAGENINGEN	(14)	0.420	0.810	0.130	0.240	I D
LABTIUM	(16)	0.470 *	0.950 *	0.170 *	0.360 **	
HAMELN	(25)	0.430	0.800	0.150	0.260	I CB
IUNGPUL	(32)	0.360	0.764	0.124	0.232	I AAE
LAS	(42)	0.390	0.692	0.122	0.213	I D
RIOJALAB	(45)	0.429	0.578 *	0.134	0.198	U D
AL-West	(78)	0.335 *	-	-	-	U CB
US	(83)	0.374	0.583 *	0.048 **	0.162 *	U CB
BRAUNSCHW	(86)	0.394	0.749	0.133	0.238	I D
VICTORY	(123)	0.360	0.650	0.140	0.280	I CB
CPH340XYC	(134)	0.490 *	0.800	0.150	0.250	I D
HHAFU	(136)	0.400	0.780	0.200 <	0.230	+ CB
RISWC	(174)	0.460	0.690	0.120	0.240	I BAF
HILL	(180)	0.430	1.060 **	0.150	0.340 **	
LEIPZIGMOE	(195)	0.380	0.560 *	0.140	0.210	
MARELI	(204)	0.420	1.660 **	0.150	0.550 **	I D
REYEPS	(213)	0.350	0.550 *	0.084 **	0.140 **	I BAF
ABMCE	(230)	0.380	0.750	0.200 <	0.260	I AAC
SLAF	(260)	0.370	0.730	0.110	0.230	I CB
MUMPFROG	(275)	0.404	0.710	0.129	0.233	I D
FFEEBW	(284)	0.420	0.826	0.138	0.264	I CB
HLVAKASSEL	(313)	0.383	0.754	0.129	0.238	I D
NFVGOE	(321)	0.460	0.710	0.110	0.200	I BAF
FVABW	(322)	0.400	0.730	0.060 **	0.180	T CB
GLAGC	(327)	0.410	0.850	0.160	0.260	+ BAF
VILJAVUUSP	(419)	0.447	0.982 *	0.241 **	0.427 **	I BAE
ANAPBO	(448)	0.420	0.490 **	-	-	U CB
CHEMHAL	(877)	0.395	0.771	0.164	0.275	IT CB
LABAMB	(878)	0.400	0.750	0.130	0.240	I CB
CAC	(885)	0.500 <	0.760	0.500 <	0.500 <	I CB
SAC-CAL	(973)	0.380	0.780	0.140	0.240	I D
AGROLAB	(977)	0.445	0.893	0.133	0.252	BA
KUDAROOT	(1063)	0.386	0.462 **	0.123	0.177	U CB
LABSOV	(1070)	0.420	0.770	0.138	0.240	I D
TRESE	(1117)	0.010 < **	0.020 **	0.010 < **	0.010 < **	I AAC

	Statistical Results			
NDA mean	0.4034	0.7557	0.1358	0.2388
NDA st dev	0.0333	0.0835	0.0160	0.0315
N	34	35	30	32
Median	0.4020	0.7540	0.1335	0.2400
MAD	0.0220	0.0560	0.0110	0.0218

Co (mg/kg)						
WAGENINGEN	(14)	0.95	15.9	5.92	10.00	I D
LABTIUM	(16)	1.01	15.7	6.21	10.20	

	Summary Statistics			
NDA mean	1.024	15.69	5.891	9.838
NDA st dev	0.159	0.86	0.308	0.627
N	25	25	25	25

(cont.)

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Sample		997	863	865	962	MIC
Co (mg/kg) (cont.)						
HAMELN	(25)	1.03	14.2	5.47	9.01	I D
AL-West	(78)	1.24	-	-	-	U CB
US	(83)	0.92	10.7 **	6.62 *	8.77	U CB
BRAUNSCHW	(86)	0.96	15.5	5.72	9.74	I D
VICTORY	(123)	1.20	14.4	6.04	9.40	I CB
CPH340XYC	(134)	0.89	14.7	5.68	9.85	I D
HHAUFU	(136)	1.04	16.2	5.93	10.07	+ CB
RISWC	(174)	1.05	17.5 *	6.07	10.06	I BAE
HILL	(180)	0.72	17.1	6.20	10.30	
LEIPZIGMOE	(195)	0.94	14.9	5.63	9.82	
MARELI	(204)	0.79	16.0	5.90	10.30	I D
ABMCE	(230)	1.20	15.4	5.69	8.72	I CB
MUMPFROG	(275)	0.99	15.9	5.69	10.40	I D
FFEEBW	(284)	1.17	16.4	5.97	10.35	I CB
HLVAKASSEL	(313)	0.89	15.4	5.42	9.88	I CB
NFVGOE	(321)	1.17	16.3	6.25	9.81	I CB
FVABW	(322)	1.10	16.1	5.50	10.40	T CB
GLAGC	(327)	1.06	15.7	6.00	9.60	+ CB
ANAPBO	(448)	1.29	16.4	6.25	10.75	U CB
LABAMB	(878)	0.90	16.0	5.40	9.60	I CB
CRC	(884)	1.80 **	14.8	6.13	9.30	
CAC	(885)	2.00 <	14.3	5.90	9.30	I CB
LDAR02	(984)	1.10	15.8	5.90	9.95	I D
KUDAROOT	(1063)	0.97	13.1 **	5.88	9.30	U D

	Statistical Results			
NDA mean	1.024	15.69	5.891	9.838
NDA st dev	0.159	0.86	0.308	0.627
N	25	25	25	25
Median	1.030	15.70	5.900	9.850
MAD	0.111	0.58	0.210	0.450

Cr (mg/kg)						
OOSTERBEEK	(4)	38.0 *	111.1 **	53.9 **	69.4 **	U D
WAGENINGEN	(14)	34.0	90.5	37.7	55.1	I CB
LABTIUM	(16)	29.6	62.0	25.1 *	38.4	
HAMELN	(25)	36.8	79.2	37.9	49.1	I CB
IUNGPUL	(32)	29.9	72.5	33.6	47.7	I AAB
LAS	(42)	33.3	77.2	34.7	48.4	I CB
RIOJALAB	(45)	39.0 *	108.0 **	52.4 **	58.4	U CB
AL-West	(78)	36.1	-	-	-	U CB
US	(83)	26.6 *	31.3 **	16.1 **	24.6 **	U CB
BRAUNSCHW	(86)	32.0	75.5	36.3	49.3	I D
VICTORY	(123)	32.5	47.3 **	16.8 **	31.6 *	I CB
CPH340XYC	(134)	31.1	66.6	28.0	44.4	I CB
HHAUFU	(136)	33.0	79.0	35.0	46.0	+ CB
RISWC	(174)	30.3	89.2	35.4	54.4	I BAE
LEIPZIGMOE	(195)	32.2	68.2	32.7	44.9	
MARELI	(204)	39.1 *	70.3	44.2	56.4	I D
REYEPS	(213)	31.0	66.6	34.7	43.9	I CB
ABMCE	(230)	31.5	75.3	34.4	45.9	I CB
SLAF	(260)	31.2	72.9	37.6	46.6	I CB
MUMPFROG	(275)	32.1	80.0	35.2	53.7	I D
FFEEBW	(284)	34.6	83.8	40.3	52.7	I CB
HLVAKASSEL	(313)	32.8	78.7	35.6	49.4	I CB
NFVGOE	(321)	39.5 *	82.1	37.7	48.2	I CB
FVABW	(322)	32.4	82.5	35.9	51.6	T CB
GLAGC	(327)	32.7	78.1	38.8	48.9	+ CB
VILJAVUJSP	(419)	28.6	64.2	29.5	39.8	I BAE
ANAPBO	(448)	36.1	76.8	46.4 *	56.8	U CB

	Summary Statistics			
NDA mean	32.41	75.45	35.77	48.48
NDA st dev	2.42	8.94	4.83	5.75
N	37	36	36	36

(cont.)

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Sample		997	863	865	962	MIC
Cr (mg/kg)	(cont.)					
CHEMHAL	(877)	28.0	80.0	31.8	50.8	IT CB
LABAMB	(878)	32.0	75.0	33.0	47.0	I CB
CRC	(884)	35.3	90.9	48.1 *	57.4	U CB
CAC	(885)	33.9	63.1	28.4	39.7	I CB
SAC-CAL	(973)	29.3	67.3	35.1	45.6	I D
AGROLAB	(977)	33.8	77.8	39.0	50.2	AA
LUNLAB	(1052)	36.7	68.4	38.6	44.5	U CB
KUDAROOT	(1063)	31.4	79.6	45.2	52.4	U CB
LABSOV	(1070)	29.1	59.0	24.2 *	38.0	I D
TRESE	(1117)	33.4	76.8	49.7 *	44.7	I AAC

	Statistical Results			
NDA mean	32.41	75.45	35.77	48.48
NDA st dev	2.42	8.94	4.83	5.75
N	37	36	36	36
Median	32.50	76.80	35.50	48.30
MAD	1.50	6.12	3.20	3.85

Cu (mg/kg)						
OOSTERBEEK	(4)	4.96	41.4 *	6.00 *	15.3	U D
WAGENINGEN	(14)	4.00	29.0	2.00 **	8.0 **	I CB
LABTIUM	(16)	6.08 *	37.5	5.78	14.3	
HAMELN	(25)	4.72	32.6	4.02 *	11.8	I CB
IUNGPUL	(32)	4.20	36.2	4.76	13.7	I AAE
LAS	(42)	4.61	36.2	4.99	13.3	I CB
RIOJALAB	(45)	4.13	28.3 *	1.57 **	7.9 **	U CB
LRSCONTROL	(63)	4.78	37.9	5.05	13.2	I CB
AL-West	(78)	4.48	-	-	-	U CB
US	(83)	4.69	25.6 *	5.21	11.5	U CB
BRAUNSCHW	(86)	4.94	34.6	5.35	13.0	I CB
VICTORY	(123)	5.05	36.3	3.85 **	11.9	I CB
CPH340XYC	(134)	4.66	36.2	5.16	13.4	I CB
HHAFU	(136)	5.26	38.0	6.78 **	13.5	+ CB
RISWC	(174)	5.00 <	35.0	5.70	15.1	I AAC
HILL	(180)	4.00 <	25.0 **	4.00 < *	7.0 **	
LEIPZIGMOE	(195)	4.57	32.7	4.94	13.0	
MARELI	(204)	4.49	34.8	5.90	14.4	I D
REYEPS	(213)	4.30	32.1	5.10	13.1	I CB
ABMCE	(230)	4.70	34.5	5.18	15.3	I CB
SLAF	(260)	3.99	29.5	4.04 *	10.9	I CB
MUMPFROG	(275)	4.80	34.0	5.27	13.5	I D
FFEEBW	(284)	5.40	33.6	5.03	12.9	I CB
HLVAKASSEL	(313)	5.05	34.9	5.43	13.9	I CB
NFVGOE	(321)	5.70 *	37.6	5.33	13.9	I CB
FVABW	(322)	4.70	36.7	5.20	14.2	T CB
GLAGC	(327)	4.80	36.7	6.30 *	14.6	+ CB
VILJAVUUSP	(419)	4.46	33.8	4.96	12.5	I CB
ANAPBO	(448)	5.59	39.0	6.40 **	15.1	U CB
CHEMHAL	(877)	4.03	37.5	6.34 *	12.4	IT CB
LABAMB	(878)	3.90	33.0	3.50 **	11.5	I CB
CRC	(884)	4.80	34.3	5.28	12.6	U CB
CAC	(885)	4.20	34.0	4.80	12.7	I CB
SAC-CAL	(973)	4.31	29.2	5.10	11.4	I D
AGROLAB	(977)	5.44	34.4	6.23 *	15.6	I AA
LUNLAB	(1052)	7.14 **	37.6	6.93 **	13.8	U CB
KUDAROOT	(1063)	4.72	29.6	4.94	12.1	U CB
LABSOV	(1070)	4.62	34.6	5.01	13.0	I D
TRESE	(1117)	5.13	29.9	4.96	13.0	I AAC

	Statistical Results			
NDA mean	4.672	34.81	5.174	13.27
NDA st dev	0.506	3.08	0.407	1.33
N	37	38	37	38
Median	4.700	34.54	5.160	13.07
MAD	0.350	2.05	0.270	0.92

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Sample		997	863	865	962	MIC
Fe (g/kg)						
WAGENINGEN	(14)	4.84	51.1	20.1	33.4	I CB
LABTIUM	(16)	4.10	45.4	18.4	28.8	
HAMELN	(25)	4.78	50.8	20.4	32.1	I CB
IUNGPUL	(32)	4.26	47.8	38.5 **	31.4	I CB
LAS	(42)	4.46	50.4	19.7	32.2	I CB
LRSCONTROL	(63)	4.15	46.5	17.9	29.6	I CB
US	(83)	2.36 **	5.8 **	1.5 **	34.6	U CB
BRAUNSCHW	(86)	5.37 *	55.6 *	23.0 **	34.9	I CB
CPH340XYC	(134)	4.46	49.9	19.3	31.0	I CB
HHAFU	(136)	4.43	52.0	19.9	33.0	+ CB
HILL	(180)	3.69 *	45.7	18.5	27.0 *	
LEIPZIGMOE	(195)	4.36	47.2	19.6	31.8	
ABMCE	(230)	4.44	51.4	20.3	30.6	I CB
SLAF	(260)	4.54	47.6	19.5	32.1	I CB
MUMPFROG	(275)	4.35	47.6	18.2	31.2	I CB
FFEEBW	(284)	4.78	48.6	20.3	31.6	I CB
HLVAKASSEL	(313)	4.47	49.0	20.2	32.5	I CB
NFVGOE	(321)	5.22 *	51.1	21.0	33.0	I CB
FVABW	(322)	4.33	46.9	18.4	28.7	T CB
GLAGC	(327)	4.80	49.9	19.5	30.0	+ CB
VILJAVUJUSP	(419)	4.06	50.6	18.7	31.9	I CB
ANAPBO	(448)	4.91	48.5	20.3	33.0	U CB
LABAMB	(878)	4.50	48.0	18.8	30.0	I CB
CRC	(884)	5.25 *	53.8	20.6	32.8	U CB
SAC-CAL	(973)	4.28	45.7	19.3	28.8	I CB
AGROLAB	(977)	4.51	48.9	18.9	31.0	I AA
KUDAROOT	(1063)	4.62	47.7	20.8	36.2 *	U D

	Statistical Results			
NDA mean	4.479	48.84	19.58	31.65
NDA st dev	0.301	2.59	1.13	1.81
N	27	27	27	27
Median	4.460	48.60	19.60	31.80
MAD	0.200	1.80	0.80	1.20

Hg (µg/kg)						
OOSTERBEEK	(4)	50.6	106.3	82.0	103.5	U D
HAMELN	(25)	56.0	93.0	75.0	91.0	I G
LAS	(42)	56.7	91.9	75.4	92.5	I G
RIOJALAB	(45)	72.5 *	66.0	74.5	71.0	U D
AL-West	(78)	55.2	-	-	-	U G
US	(83)	56.8	97.2	84.5	113.0	U CB
CPH340XYC	(134)	64.7	94.3	82.7	96.3	I G
HHAFU	(136)	57.0	94.0	79.0	92.0	\$ BA
LEIPZIGMOE	(195)	0.1 **	0.1 **	0.1 **	0.1 **	
MARELI	(204)	130.5 **	164.1 **	103.2 **	128.0 *	I D
REYEPS	(213)	60.0	93.0	82.0	91.0	I G
MUMPFROG	(275)	62.0	90.0	76.0	87.0	X Z
HLVAKASSEL	(313)	54.1	90.0	75.2	94.1	I G
GLAGC	(327)	48.0	83.0	64.0	81.0	+ G
VILJAVUJUSP	(419)	54.6	972.8 **	72.4	75.8	I F
ANAPBO	(448)	25.3 **	53.2 *	37.7 **	42.9 *	U G
CHEMHAL	(877)	50.0 <	50.0 < *	50.0 < **	50.0 < *	IT G
LABAMB	(878)	100.0 <	100.0 <	100.0 <	100.0 <	I CB
CRC	(884)	550.0 <	1159.0 **	560.0 <	560.0 <	U D
SAC-CAL	(973)	60.5	105.0	81.9	102.8	I D
KUDAROOT	(1063)	61.5	64.3	72.7	72.8	U D

	Statistical Results			
NDA mean	57.37	91.10	77.45	90.81
NDA st dev	5.89	15.29	8.50	16.67
N	18	18	17	17
Median	56.75	93.00	75.40	91.00
MAD	4.24	11.02	6.48	11.77

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Sample		997	863	865	962	MIC
K (mg/kg)						
WAGENINGEN	(14)	314	5614	2346	6610	I CB
LABTIUM	(16)	150 **	2720 *	696 **	3870 **	
HAMELN	(25)	298	5753	2302	6490	I CB
LAS	(42)	272	5160	1930	6125	I CA
LRSCONTROL	(63)	259	4444	2034	5956	I CB
BRAUNSCHW	(86)	302	5405	2303	6019	I CB
HHAUFU	(136)	301	6160	2248	7096	+ CB
HILL	(180)	161 **	2280 **	685 **	3250 **	
ABMCE	(230)	272	5450	2140	6270	I CB
SLAF	(260)	327	6886	3452 *	7688	I CB
MUMPFROG	(275)	304	5880	2365	6874	I CB
FFEEBW	(284)	319	6682	2905	7474	I CB
HLVAKASSEL	(313)	310	5332	2092	6484	I CB
NFVGOE	(321)	360	6300	2610	7320	I CB
FVABW	(322)	310	6690	2850	7580	T CB
GLAGC	(327)	272	6470	2790	7270	+ CB
VILJAVUJSP	(419)	290	5201	1829	6567	I CB
LABAMB	(878)	270	4100	1979	5600	I CB
CRC	(884)	567 **	13470 **	6349 **	11952 **	
SAC-CAL	(973)	320	5189	2027	6804	I CB
KUDAROOT	(1063)	392 *	4752	5780 **	10552 **	U D

	Statistical Results			
NDA mean	300.1	5613	2272	6703
NDA st dev	34.8	1011	456	891
N	21	21	21	21
Median	302.0	5450	2302	6610
MAD	25.4	710	323	654

Li (mg/kg)						
HAMELN	(25)	5.45	58.5	32.0	39.9	I CB
BRAUNSCHW	(86)	5.56	54.5	32.5	37.9	I D
VICTORY	(123)	2.76	32.0	13.3	36.3	I CB
GLAGC	(327)	5.20	58.6	30.9	40.3	+ CB
LABAMB	(878)	4.40	53.0	31.0	34.0	I CB

	Statistical Results (no NDA)			
N	5	5	5	5
Median	5.200	54.47	31.00	37.93
MAD	0.360	4.03	1.00	1.97

Mg (mg/kg)						
WAGENINGEN	(14)	465	6497	3190	9828	I CB
LABTIUM	(16)	378	5070 *	2150 *	8270 *	
HAMELN	(25)	470	6381	2940	9744	I CB
LAS	(42)	428	5840	2700	9080	I CB
LRSCONTROL	(63)	421	5732	2711	9120	I CB
BRAUNSCHW	(86)	499	5909	3126	9455	I CB
CPH340XYC	(134)	420	5560	2382	9147	I CB
HHAUFU	(136)	261 **	5968	2463	9327	+ CB
HILL	(180)	330 **	4240 **	1710 **	7830 *	
LEIPZIGMOE	(195)	378	5509	2558	8704	
ABMCE	(230)	441	6160	2850	9040	I CB
SLAF	(260)	479	6508	3252	10010	I CB
MUMPFROG	(275)	476	6013	2891	9932	I CB
FFEEBW	(284)	489	7033 *	3474	9943	I CB
HLVAKASSEL	(313)	490	6166	2991	9502	I CB
NFVGOE	(321)	530	6520	3090	9830	I CB
FVABW	(322)	460	6170	2990	9470	T CB

	Summary Statistics			
NDA mean	464.9	6095	2939	9477
NDA st dev	44.7	397	334	571
N	24	24	24	24

(cont.)

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Sample		997	863	865	962	MIC
Mg (mg/kg) (cont.)						
GLAGC	(327)	456	5940	3000	8900	+ CB
VILJAVUJUSP	(419)	429	6041	2706	9442	I CB
ANAPBO	(448)	515	6129	3459	9947	U CB
LABAMB	(878)	480	6000	2900	9000	I CB
CRC	(884)	532	7414 **	3856 *	10359	
AGROLAB	(977)	447	6328	2896	10034	I AA
KUDAROOT	(1063)	489	7184 *	3550	9417	U D

	Statistical Results			
NDA mean	464.9	6095	2939	9477
NDA st dev	44.7	397	334	571
N	24	24	24	24
Median	462.5	6085	2920	9449
MAD	30.4	271	217	395

Mn (mg/kg)						
WAGENINGEN	(14)	209	415	385	930	I CB
LABTIUM	(16)	195	393	365	886	
HAMELN	(25)	213	442	402	983	I CB
IUNGPUL	(32)	192	447	367	964	I AAE
LAS	(42)	203	448	385	939	I CB
US	(83)	181 *	280 **	347	708 **	U CB
BRAUNSCHW	(86)	213	420	403	949	I CB
CPH340XYC	(134)	217	442	398	962	I CB
HHAFU	(136)	206	444	389	973	+ CB
RISWC	(174)	195	431	385	1045	I AAB
HILL	(180)	190	400	380	900	
LEIPZIGMOE	(195)	202	437	394	988	
ABMCE	(230)	206	449	382	858	I CB
SLAF	(260)	192	403	354	899	I CB
MUMPFROG	(275)	209	415	384	891	I CB
FFEEBW	(284)	206	457	400	970	I CB
HLVAKASSEL	(313)	206	444	394	979	I CB
NFVGOE	(321)	230 *	430	380	940	I CB
FVABW	(322)	200	400	370	860	T CB
GLAGC	(327)	213	430	389	907	+ CB
VILJAVUJUSP	(419)	192	429	359	960	I CB
ANAPBO	(448)	227 *	451	405	993	U CB
LABAMB	(878)	210	420	370	880	I CB
CRC	(884)	237 **	399	367	808	
CAC	(885)	210	408	344	908	I CB
AGROLAB	(977)	201	438	385	996	I AA
KUDAROOT	(1063)	202	352 **	347	838	U D
TRESE	(1117)	193	251 **	293 **	645 **	I AAC

	Statistical Results			
NDA mean	203.8	429.1	380.9	934.2
NDA st dev	10.7	23.1	20.1	63.6
N	28	28	28	28
Median	205.9	429.6	383.0	934.5
MAD	7.2	16.0	14.0	44.0

Mo (mg/kg)						
LABTIUM	(16)	0.580	0.810	0.980	0.500	
HAMELN	(25)	0.767 **	0.762	0.932	0.432	I D
IUNGPUL	(32)	0.568	0.560	0.856	0.316	I CB
AL-West	(78)	1.000 <	-	-	-	U CB
US	(83)	0.500	0.333	0.759	0.195	U CB
BRAUNSCHW	(86)	0.626	0.755	0.979	0.452	I D

	Summary Statistics			
NDA mean	0.5646	0.6467	0.9088	0.3821
NDA st dev	0.0550	0.1674	0.0850	0.1412
N	20	21	22	20

(cont.)

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Sample	997	863	865	962	MIC
Mo (mg/kg) (cont.)					
CPH340XYC (134)	0.640	0.800	1.010	0.470	I D
HHAFU (136)	0.580	0.580	0.940	0.510	+ CB
RISWC (174)	0.610	0.650	0.930	0.440	I BAF
HILL (180)	0.500	0.600	0.900	0.300	
LEIPZIGMOE (195)	0.560	0.680	0.870	0.410	
MARELI (204)	0.560	0.880	1.050	0.520	I D
ABMCE (230)	0.540	0.730	0.870	0.520	I CB
MUMPFROG (275)	0.568	0.720	0.877	0.443	I D
FFEEBW (284)	0.627	0.672	0.956	0.309	I CB
HLVAKASSEL (313)	0.572	0.763	0.917	0.438	I D
GLAGC (327)	0.600	0.500	0.800	0.200	+ CB
VILJAVUUSP (419)	0.456	0.401	0.820	0.213	I CB
ANAPBO (448)	0.510	0.410	0.700 *	0.200	U CB
LABAMB (878)	0.450 *	0.550	0.850	0.300	I CB
SAC-CAL (973)	0.850 <	0.850 <	1.010	0.850 <	I D
LDAR02 (984)	1.011 <	1.300 **	1.100 *	1.035 <	I D
KUDAROOT (1063)	0.542	0.404	0.864	0.306	U D

	Statistical Results			
NDA mean	0.5646	0.6467	0.9088	0.3821
NDA st dev	0.0550	0.1674	0.0850	0.1412
N	20	21	22	20
Median	0.5680	0.6716	0.9085	0.4210
MAD	0.0370	0.1116	0.0555	0.0990

Na (mg/kg)					
WAGENINGEN (14)	51.0	244	117	247	I CB
LABTIUM (16)	50.0 <	92 **	50 < *	141 **	
HAMELN (25)	58.5	244	129	242	I CB
LAS (42)	52.2	238	109	255	I CB
LRSCONTROL (63)	-	204	104	250	I CB
BRAUNSWH (86)	48.3	211	122	210	I CB
HHAFU (136)	50.0 <	242	102	212	+ CB
HILL (180)	35.0	116 **	33 *	145 **	
ABMCE (230)	55.0 <	228	129	231	I CB
SLAF (260)	50.9	265	180	238	I CB
MUMPFROG (275)	66.5	246	139	257	I CB
FFEEBW (284)	118.6 **	349 **	259 **	358 **	I CB
NFVGoe (321)	80.0	260	150	280	I CB
FVABW (322)	70.0	260	170	270	T CB
GLAGC (327)	33.0	260	160	250	+ CB
LABAMB (878)	80.0	250	135	260	I CB
KUDAROOT (1063)	68.4	135 **	233 *	282	U D

	Statistical Results			
NDA mean	58.23	245.4	133.4	249.8
NDA st dev	15.80	21.9	36.2	26.6
N	13	17	16	17
Median	58.50	244.0	132.0	250.0
MAD	10.16	16.0	25.4	19.0

Ni (mg/kg)					
OOSTERBEEK (4)	8.48	55.8 *	15.2 *	36.2 *	U D
WAGENINGEN (14)	8.30	52.2	13.3	30.9	I CB
LABTIUM (16)	7.92	47.1	13.0	34.4	
HAMELN (25)	9.25	49.2	14.6	31.6	I CB
IUNG PUL (32)	7.76	47.5	13.7	31.2	I AAE
LAS (42)	8.69	48.4	13.6	31.2	I CB
RIOJALAB (45)	8.45	50.3	14.1	32.9	U CB

	Summary Statistics			
NDA mean	8.005	46.37	13.50	30.23
NDA st dev	0.655	3.91	0.82	2.42
N	37	36	36	36

(cont.)

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Sample	997	863	865	962	MIC
Ni (mg/kg) (cont.)					
LRSCONTROL (63)	7.67	37.4 *	12.3	27.3	I CB
AL-West (78)	7.98	-	-	-	U CB
US (83)	6.88	23.7 **	9.7 **	21.0 **	U CB
BRAUNSCHW (86)	8.16	45.8	14.4	31.5	I D
VICTORY (123)	6.63 *	36.7 *	10.0 **	24.5 *	I CB
CPH340XYC (134)	9.03	41.9	13.2	29.0	I CB
HHAFU (136)	8.56	49.0	14.4	30.0	+ CB
RISWC (174)	6.30 *	49.2	14.9	36.1 *	I AAA
LEIPZIGMOE (195)	7.80	43.2	13.1	30.1	
MARELI (204)	5.98 **	48.5	13.6	32.7	I D
REYEPS (213)	8.10	41.5	13.5	27.5	I CB
ABMCE (230)	8.12	46.9	13.5	29.2	I CB
MUMPFROG (275)	8.18	48.1	13.3	33.0	I D
FFEEBW (284)	7.81	41.7	11.0 **	26.5	I CB
HLVAKASSEL (313)	7.73	50.7	13.9	30.5	I D
NFVGOE (321)	10.00 **	47.2	14.1	30.1	I CB
FVABW (322)	7.90	48.0	12.5	31.2	T CB
GLAGC (327)	10.80 **	46.9	14.0	30.4	+ CB
VILJAVUUSP (419)	8.19	45.1	14.0	29.1	I CB
ANAPBO (448)	8.95	48.0	15.1	32.0	U CB
CHEMHAL (877)	6.99	36.6 *	11.0 *	25.5	IT CB
LABAMB (878)	7.70	44.0	13.0	30.0	I CB
CRC (884)	9.98 **	46.3	13.5	27.9	U CB
CAC (885)	8.40	46.4	13.0	31.1	I CB
SAC-CAL (973)	7.36	40.9	13.7	28.5	I D
AGROLAB (977)	8.46	45.5	13.0	28.7	I CB
LUNLAB (1052)	8.02	47.8	12.9	31.9	U CB
KUDAROOT (1063)	7.17	37.2 *	11.8 *	24.4 *	U CB
LABSOV (1070)	7.60	42.0	12.9	30.3	I D
TRESE (1117)	6.90	38.8	11.8 *	28.1	I AAC

	Statistical Results			
NDA mean	8.005	46.37	13.50	30.23
NDA st dev	0.655	3.91	0.82	2.42
N	37	36	36	36
Median	8.020	46.65	13.40	30.21
MAD	0.431	2.55	0.54	1.62

P (mg/kg)					
WAGENINGEN (14)	456	1079	501	691	I CB
LABTIUM (16)	467	1150	515	747	
HAMELN (25)	478	1102	515	705	I CB
LAS (42)	476	1180	535	749	I CB
LRSCONTROL (63)	423 *	1004 *	456 *	648	I CB
BRAUNSCHW (86)	511 *	1113	549	765	I CB
CPH340XYC (134)	488	1135	538	757	I CB
HHAFU (136)	465	1210	553	751	+ CB
HILL (180)	443	1023	480	654	
ABMCE (230)	468	1240 *	532	729	I CB
SLAF (260)	447	1094	467 *	739	I CB
MUMPFROG (275)	478	1075	532	727	I CB
FFEEBW (284)	471	1205	541	771	I CB
HLVAKASSEL (313)	470	1169	513	779	I CB
NFVGOE (321)	560 **	1120	530	720	I CB
FVABW (322)	450	1120	510	740	T CB
GLAGC (327)	458	1090	519	702	+ CB
VILJAVUUSP (419)	471	1151	531	1 **	I CB
LABAMB (878)	450	1100	490	680	I CB
CRC (884)	477	1110	530	690	U CB
CAC (885)	512 **	1162	563	779	I CB

	Summary Statistics			
NDA mean	466.6	1122	525.4	727.7
NDA st dev	14.8	53	23.5	46.3
N	24	24	24	24

(cont.)

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Sample		997	863	865	962	MIC
P (mg/kg) (cont.)						
SAC-CAL (973)		473	1071	541	686	I CB
AGROLAB (977)		460	1132	479	733	I CB
KUDAROOT (1063)		402 **	686 **	414 **	535 **	U D
===== Statistical Results =====						
NDA mean		466.6	1122	525.4	727.7	
NDA st dev		14.8	53	23.5	46.3	
N		24	24	24	24	
Median		469.0	1117	524.5	728.0	
MAD		10.0	36	15.3	33.0	
=====						
Pb (mg/kg)						
OOSTERBEEK (4)		18.6	87.8	22.3	38.6	U D
WAGENINGEN (14)		17.0	70.0	18.0	27.0	I CB
LABTIUM (16)		20.6 *	97.9 *	25.3 *	43.8 **	
HAMELN (25)		18.4	68.4	18.4	26.2	I CB
IUNGPUL (32)		16.4	78.0	18.6	32.2	I AAE
LAS (42)		18.3	78.0	19.6	30.5	I CB
RIOJALAB (45)		21.4 *	86.2	24.5 *	38.3	U CB
LRSCONTROL (63)		18.7	66.0	18.0	28.0	I CB
AL-West (78)		17.4	-	-	-	U CB
US (83)		16.9	51.7 *	19.6	25.5	U CB
BRAUNSCHW (86)		16.8	72.4	19.5	32.0	I D
VICTORY (123)		19.1	82.8	21.4	34.0	I CB
CPH340XYC (134)		16.6	81.1	20.4	-	I D
HHAFU (136)		17.7	80.0	20.0	31.0	+ CB
RISWC (174)		25.6 **	18.9 **	25.8 **	19.2 *	I BAF
LEIPZIGMOE (195)		16.0	67.7	20.0	28.4	
MARELI (204)		18.6	83.0	21.7	34.9	I D
REYEPS (213)		16.9	67.4	19.5	31.7	I CB
ABMCE (230)		16.8	73.1	18.1	29.8	I AAC
SLAF (260)		17.5	70.6	18.1	29.3	I CB
MUMPFROG (275)		17.8	73.7	19.4	33.3	I D
FFEEBW (284)		16.0	65.2	15.3	24.4	I CB
HLVAKASSEL (313)		15.4	78.3	17.4	33.0	I D
NFVGOE (321)		20.7 *	72.6	19.8	30.1	I CB
FVABW (322)		20.0	87.8	22.2	37.3	T CB
GLAGC (327)		18.5	69.5	19.4	28.0	+ CB
VILJAVUUSP (419)		15.7	61.0	16.9	24.1	I CB
ANAPBO (448)		18.0	66.2	14.6 *	24.4	U CB
CHEMHAL (877)		15.5	70.7	22.2	31.0	IT CB
LABAMB (878)		16.5	73.0	18.0	30.0	I CB
CRC (884)		19.4	92.8 *	30.7 **	41.9 *	U CB
CAC (885)		18.2	70.2	19.3	29.3	I CB
SAC-CAL (973)		16.5	78.9	19.8	32.3	I D
AGROLAB (977)		17.1	80.5	19.5	34.0	I BA
LUNLAB (1052)		15.1	61.9	20.2	32.3	U CB
KUDAROOT (1063)		15.3	55.4	16.0	22.8	U CB
LABSOV (1070)		17.8	77.4	20.6	32.4	I D
TRESE (1117)		16.3	62.0	14.8 *	31.1	I AAC
===== Statistical Results =====						
NDA mean		17.33	73.42	19.37	30.60	
NDA st dev		1.55	9.56	2.11	4.18	
N		38	37	37	36	
Median		17.44	72.60	19.54	30.99	
MAD		1.05	6.42	1.44	2.79	
=====						

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Sample		997	863	865	962	MIC
S (mg/kg)						
WAGENINGEN	(14)	935	606	376 *	1749	I CB
LABTIUM	(16)	974	582	346	1970	
HAMELN	(25)	951	520	320	1717	I CB
IUNGPUL	(32)	925	502 *	350	1798	I CB
LAS	(42)	940	581	345	1920	I CB
BRAUNSCHW	(86)	950	492 *	323	1756	I CB
CPH340XYC	(134)	972	572	343	1884	I CB
HHAFU	(136)	969	641 *	368	1913	+ CB
HILL	(180)	922	539	310	1765	
ABMCE	(230)	922	580	323	2160 **	I CB
SLAF	(260)	915	540	333	1722	I CB
MUMPFROG	(275)	930	525	332	1800	I CB
FFEEBW	(284)	951	598	347	1885	I CB
HLVAKASSEL	(313)	926	553	331	1868	I CB
NFVGOE	(321)	1170 **	570	350	1880	I CB
FVABW	(322)	940	570	350	1930	T CB
GLAGC	(327)	915	564	340	1800	+ CB
AGROLAB	(977)	886 *	552	318	1857	I BA
KUDAROOT	(1063)	960	579	367	1710	U D

	Statistical Results			
NDA mean	938.3	564.4	339.5	1830
NDA st dev	25.6	28.5	17.0	94
N	19	19	19	19
Median	940.0	570.0	343.0	1857
MAD	18.0	18.0	11.0	63

Sb (mg/kg)						
LABTIUM	(16)	0.340	0.720	0.270	0.330	
HAMELN	(25)	0.360	0.545	0.237	0.249	I D
AL-West	(78)	0.500 <	-	-	-	U CB
US	(83)	0.341	0.812	0.388 *	0.538 *	U CB
BRAUNSCHW	(86)	0.331	0.371	0.222	0.210	I D
VICTORY	(123)	2.000 <	2.720 **	2.000 <	2.000 <	
CPH340XYC	(134)	0.350	0.780	0.270	0.330	I D
HHAFU	(136)	2.000 <	2.000 <	2.000 <	2.000 <	+ CB
MUMPFROG	(275)	0.321	0.613	0.195	0.319	I D
HLVAKASSEL	(313)	0.310	0.501	0.219	0.258	I D
VILJAVUUSP	(419)	0.921 **	2.916 **	1.071 **	1.353 **	I CB
ANAPBO	(448)	2.160 **	0.632	0.772 **	0.346	U BA
LABAMB	(878)	0.400 *	0.800	0.300	0.350	I CB
KUDAROOT	(1063)	0.355	0.424	0.267	0.259	U D

	Statistical Results			
NDA mean	0.3416	0.6266	0.2537	0.3017
NDA st dev	0.0262	0.1898	0.0640	0.0935
N	11	12	11	11
Median	0.3500	0.6760	0.2700	0.3300
MAD	0.0190	0.1335	0.0480	0.0710

Sc (mg/kg)						
VICTORY	(123)	0.820	6.67	1.17	5.31	I CB

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

Se (mg/kg)						
LABTIUM	(16)	0.220	1.160	0.240	0.390	
HAMELN	(25)	0.156	0.859	0.180	0.261	I F
IUNGPUL	(32)	1.000 <	1.000 <	1.000 <	1.000 <	I CB

	Summary Statistics			
NDA mean	0.1814	0.9696	0.2099	0.3019
NDA st dev	0.0457	0.1827	0.0407	0.0779
N	11	13	11	12

(cont.)

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample		997	863	865	962	MIC
Se (mg/kg) (cont.)						
AL-West	(78)	2.000 <	-	-	-	U CB
BRAUNSCHW	(86)	0.155	0.923	0.220	0.292	I D
CPH340XYC	(134)	0.183	0.955	0.194	0.291	I F
HHAFU	(136)	2.000 <	2.000 <	2.000 <	2.000 <	+ CB
HILL	(180)	0.200 <	0.600 *	0.200 <	0.200 <	
LEIPZIGMOE	(195)	0.130	0.960	0.190	0.220	
MUMPFROG	(275)	0.190	1.010	0.211	0.325	I D
HLVAKASSEL	(313)	0.168	0.899	0.189	0.282	I D
ANAPBO	(448)	0.888 **	0.001 **	0.106 *	0.014 **	U BA
LABAMB	(878)	0.200	1.260	0.240	0.440	I CB
SAC-CAL	(973)	0.240	1.650 **	0.270	0.590 **	I D
LDAR02	(984)	0.200 <	0.830	0.210 <	0.300	I Z
KUDAROOT	(1063)	0.657 **	1.160	1.010 **	1.140 **	U D

	Statistical Results			
NDA mean	0.1814	0.9696	0.2099	0.3019
NDA st dev	0.0457	0.1827	0.0407	0.0779
N	11	13	11	12
Median	0.1900	0.9550	0.2110	0.2960
MAD	0.0340	0.1250	0.0290	0.0555

Si (g/kg)		997	863	865	962
CRC	(884)	445	248	348	282

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

Sn (mg/kg)						
WAGENINGEN	(14)	3.060 **	2.30	1.07	2.26	I D
LABTIUM	(16)	0.740	1.70 *	0.73	1.88	
HAMELN	(25)	-	2.05	1.00	1.88	I D
AL-West	(78)	1.140	-	-	-	U CB
US	(83)	0.923	1.65 *	1.27	2.08	U CB
BRAUNSCHW	(86)	0.929	2.34	1.16	2.34	I D
HHAFU	(136)	4.270 **	9.15 **	3.33 **	3.68 **	+ CB
MARELI	(204)	6.270 **	30.48 **	8.60 **	31.95 **	I D
MUMPFROG	(275)	0.876	2.09	0.87	2.14	I D
HLVAKASSEL	(313)	0.874	2.27	0.99	2.24	I D
ANAPBO	(448)	1.160	1.89	1.58 *	2.46	U CB
LABAMB	(878)	1.200	2.30	1.10	2.00	I CB
CRC	(884)	0.767	2.38	1.13	2.09	
CAC	(885)	0.710	2.20	1.20	2.00	I CB
KUDAROOT	(1063)	1.290	2.28	1.49	2.87 *	U D

	Statistical Results			
NDA mean	0.9552	2.205	1.107	2.127
NDA st dev	0.2818	0.214	0.223	0.262
N	14	14	14	14
Median	1.0345	2.275	1.145	2.190
MAD	0.2105	0.145	0.153	0.190

Sr (mg/kg)						
LABTIUM	(16)	4.72	31.9	13.4	109	
HAMELN	(25)	6.29	37.4	15.3	106	I CB
BRAUNSCHW	(86)	5.96	31.9	15.4	102	I CB
VICTORY	(123)	5.40	29.8	14.4	110	I CB
HHAFU	(136)	10.00 <	44.0	16.6	120 *	+ CB
MUMPFROG	(275)	5.54	38.7	15.3	108	I CB
HLVAKASSEL	(313)	4.98	37.9	11.8 *	111	I D
GLAGC	(327)	6.00	42.9	17.3	112	+ CB

	Summary Statistics			
NDA mean	5.705	37.22	15.08	109.2
NDA st dev	0.621	7.59	1.61	3.7
N	9	10	10	10

(cont.)

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample		997	863	865	962	MIC
Sr (mg/kg) (cont.)						
LABAMB	(878)	6.20	35.0	14.7	107	I CB
KUDAROOT	(1063)	10.00 **	53.1 *	28.9 **	113	U D
===== Statistical Results =====						
NDA mean		5.705	37.22	15.08	109.2	
NDA st dev		0.621	7.59	1.61	3.7	
N		9	10	10	10	
Median		5.960	37.65	15.30	109.5	
MAD		0.420	5.50	1.12	2.5	
=====						
Th (mg/kg)						
LABTIUM	(16)	0.230	6.52	1.26	6.08	
===== No Statistical Results =====						
Ti (mg/kg)						
LABTIUM	(16)	38 *	37 *	9.5 *	120 *	
BRAUNSCHW	(86)	90	185	55.1	290	I CB
HHAUFU	(136)	130	305	81.0	448	+ CB
MUMPFROG	(275)	104	264	67.8	392	I CB
HLVAKASSEL	(313)	109	212	58.1	351	I CB
NFVGOE	(321)	160	440	120.0 *	490	I CB
GLAGC	(327)	129	339	96.0	430	+ CB
ANAPBO	(448)	197 *	350	166.4 **	588	U CB
LABAMB	(878)	95	215	65.0	320	I CB
===== Statistical Results =====						
NDA mean		113.5	271.1	69.79	396.0	
NDA st dev		30.8	109.6	20.33	108.1	
N		9	9	9	9	
Median		109.0	264.0	67.80	392.0	
MAD		20.0	75.0	13.20	72.0	
=====						
Tl (mg/kg)						
LABTIUM	(16)	0.0600	0.400	0.160	0.250	
HAMELN	(25)	-	0.554	0.249	0.269	I D
AL-West	(78)	2.0000 <	-	-	-	U CB
BRAUNSCHW	(86)	0.0490	0.307 *	0.139	0.152 *	I D
CPH340XYC	(134)	0.0600	0.490	0.210	0.270	I D
LEIPZIGMOE	(195)	0.0600	0.520	0.170	0.230	
MUMPFROG	(275)	0.0680	0.533	0.240	0.310	I D
HLVAKASSEL	(313)	0.0748	0.610	0.258	0.314	I D
LABAMB	(878)	0.1000 <	0.470	0.200	0.250	I CB
KUDAROOT	(1063)	0.0910	0.770 **	0.387 **	0.439 **	U D
===== Statistical Results =====						
NDA mean		-	0.5102	0.2062	0.2653	
NDA st dev		-	0.0765	0.0571	0.0547	
N		7	9	9	9	
Median		0.06000	0.5200	0.2100	0.2690	
MAD		0.00800	0.0500	0.0400	0.0390	
=====						
U (mg/kg)						
LABTIUM	(16)	0.210	2.02	0.470	0.840	
BRAUNSCHW	(86)	0.258	1.97	0.552	0.871	I D
LEIPZIGMOE	(195)	0.220	1.64	0.430	0.780	
MUMPFROG	(275)	0.257	1.83	0.490	0.891	I D
===== Statistical Results (no NDA) =====						
N		4	4	4	4	
Median		0.2385	1.900	0.4800	0.8555	
MAD		0.0190	0.095	0.0300	0.0255	
=====						

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample		997	863	865	962	MIC
V (mg/kg)						
LABTIUM	(16)	35.9	80.6	28.1	44.3	
HAMELN	(25)	38.8	84.0	37.1	47.1	I D
AL-West	(78)	39.0	-	-	-	U CB
US	(83)	34.8 *	41.0 **	19.6 *	27.7 *	U CB
BRAUNSCHW	(86)	39.1	82.6	43.7	52.2	I CB
VICTORY	(123)	46.4 **	72.6	21.5	35.7	I CB
HHAFU	(136)	36.0	95.0	39.0	53.0	+ CB
RISWC	(174)	38.4	108.9 *	48.7	64.0	I BAE
LEIPZIGMOE	(195)	33.8 *	86.8	33.1	48.4	
ABMCE	(230)	36.5	86.9	38.7	49.1	I CB
MUMPFROG	(275)	38.4	98.1	39.9	60.7	I D
HLVAKASSEL	(313)	39.7	91.0	39.1	55.8	I CB
GLAGC	(327)	38.3	96.8	43.6	52.8	+ CB
VILJAVUUSP	(419)	37.3	83.1	35.5	47.7	I CB
ANAPBO	(448)	39.5	87.7	49.0	60.1	U CB
LABAMB	(878)	36.0	80.0	33.0	47.0	I CB
CRC	(884)	40.1	106.0	57.7 *	67.7	
CAC	(885)	39.3	74.3	32.3	43.0	I CB
KUDAROOT	(1063)	39.3	74.3	46.8	60.1	U D

	Statistical Results			
NDA mean	38.27	86.17	38.53	51.68
NDA st dev	1.73	11.10	8.69	8.69
N	19	18	18	18
Median	38.40	85.39	38.85	50.65
MAD	1.12	7.62	5.80	5.75

Zn (mg/kg)						
OOSTERBEEK	(4)	20.2	235	56.0	98.4 *	U D
WAGENINGEN	(14)	42.0 **	213	52.0	72.0 **	I CB
LABTIUM	(16)	19.0	205	49.4	85.0	
HAMELN	(25)	22.0	224	55.9	92.4	I CB
IUNGPUL	(32)	20.2	217	57.8	95.1 *	I CB
LAS	(42)	21.4	228	55.4	90.1	I CB
RIOJALAB	(45)	21.3	217	54.8	85.2	U CB
AL-West	(78)	21.3	-	-	-	U CB
US	(83)	15.9 *	124 **	37.6 **	60.5 **	U CB
BRAUNSCHW	(86)	21.5	187 *	54.7	84.1	I CB
VICTORY	(123)	20.9	191	39.0 **	86.4	I CB
CPH340XYC	(134)	20.3	217	53.7	86.8	I CB
HHAFU	(136)	21.0	229	56.0	89.0	+ CB
RISWC	(174)	22.3	221	53.9	88.3	I AAA
HILL	(180)	15.0 *	176 **	43.0 **	70.0 **	
LEIPZIGMOE	(195)	21.5	212	56.4	92.6	
MARELI	(204)	16.2 *	216	54.3	90.6	I D
REYEPS	(213)	19.0	199	52.6	83.5	I CB
ABMCE	(230)	19.8	221	53.8	88.6	I CB
SLAF	(260)	19.5	209	51.8	81.7	I CB
MUMPFROG	(275)	19.4	208	50.3	85.6	I D
FFEEBW	(284)	21.2	230	54.3	88.5	I CB
HLVAKASSEL	(313)	20.3	219	50.7	73.5 *	I CB
NFVGoe	(321)	23.7	216	54.7	86.0	I CB
FVABW	(322)	19.0	210	52.0	85.0	T CB
GLAGC	(327)	18.4	209	52.0	83.3	+ CB
VILJAVUUSP	(419)	22.0	208	51.7	83.6	I CB
ANAPBO	(448)	28.8 **	233	66.6 **	106.7 **	U CB
CHEMHAL	(877)	15.8 *	197	49.8	79.6	I T CB
LABAMB	(878)	20.0	210	52.0	80.0	I CB
CRC	(884)	22.3	218	55.3	86.4	U CB
CAC	(885)	16.5 *	202	49.8	83.0	I CB

	Summary Statistics			
NDA mean	20.40	214.0	53.51	85.92
NDA st dev	1.92	12.1	2.96	4.25
N	38	37	37	37

(cont.)

ISE 2012.1 - Aqua Regia (ISO 11466)

Sample		997	863	865	962	MIC
Zn (mg/kg)	(cont.)					
SAC-CAL	(973)	18.2	215	54.7	87.9	I D
AGROLAB	(977)	21.5	239 *	58.0	97.9 *	I AA
LUNLAB	(1052)	25.5 *	234	55.8	87.2	U CB
KUDAROOT	(1063)	22.0	202	51.6	83.6	U CB
LABSOV	(1070)	18.7	204	51.2	82.2	I D
TRESE	(1117)	19.6	207	206.6 **	84.6	I AAC

	Statistical Results			
NDA mean	20.40	214.0	53.51	85.92
NDA st dev	1.92	12.1	2.96	4.25
N	38	37	37	37
Median	20.30	213.0	53.80	85.60
MAD	1.30	8.0	2.10	2.90

ISE 2012.1 - Extraction with boiling 2M HNO3

Sample		997	863	865	962	MIC
Cd (mg/kg)						
BOANALHOAG	(9)	0.400	0.800	0.200 *	0.300	N CB
ULS	(22)	0.390	0.780	0.132	0.293	N CB
VERITAS	(23)	0.416	0.800	0.136	0.238	N CB
FRIDOLIN	(29)	0.422	0.787	0.132	0.237	N D
RECKENHOLZ	(36)	0.406	0.814	0.156	0.256	N CB
AGROCH	(75)	0.400	0.730	0.150	0.220	N BAC
FEETS	(76)	0.440	0.900 *	0.150	0.300	N CB
HIDU	(82)	0.390	0.760	0.100	0.260	N D
MERLIN	(159)	0.420	0.710	0.050 < *	0.220	N/CB
CHECKSOL	(161)	0.395	0.728	0.154	0.263	N AAC
BODEN ZH	(162)	0.392	0.733	0.101	0.192	N CB
SCSF	(184)	0.380	0.652	0.104	0.203	N CB
CLHMC	(205)	0.630 **	1.070 **	0.400 **	0.390 *	N BAD
URKANTONE	(232)	0.430	0.840	0.140	0.260	N CB
CH-SAMEN	(261)	0.403	0.759	0.115	0.246	N D
UAN AUE BL	(290)	0.392	0.737	0.128	0.232	N D
MBT	(291)	0.403	0.803	0.115	0.230	N CB
LAB607	(862)	0.650 **	2.300 **	0.880 **	1.330 **	
WANDSCH	(958)	0.424	0.745	0.137	0.231	N CB
ELEMENT	(980)	0.506 **	0.550 **	0.099	0.305	N AAA
H62B12	(983)	0.900 **	1.400 **	0.550 **	0.450 **	N AAE

	Statistical Results			
NDA mean	0.4048	0.7662	0.1298	0.2491
NDA st dev	0.0217	0.0649	0.0284	0.0487
N	21	21	20	21
Median	0.4060	0.7800	0.1365	0.2560
MAD	0.0160	0.0470	0.0205	0.0360

Co (mg/kg)						
BOANALHOAG	(9)	0.700	13.0	5.80 *	9.00	N CB
ULS	(22)	0.598	12.2	4.42 **	7.77	N CB
VERITAS	(23)	1.000 <	12.6	5.21	8.73	N CB
FRIDOLIN	(29)	0.680	13.2	5.32	9.21	N D
RECKENHOLZ	(36)	0.615	11.5	5.33	8.22	N CB
AGROCH	(75)	0.600	13.4	5.00	8.42	N BAD
FEETS	(76)	0.730	12.7	5.08	8.22	N CB
HIDU	(82)	0.660	12.8	5.26	9.07	N D
MERLIN	(159)	0.670	11.3	5.08	7.75	N/CB
BODEN ZH	(162)	0.598	12.9	5.23	9.11	N CB
SCSF	(184)	0.596	11.3	4.58 *	8.04	N AAC
CLHMC	(205)	0.800 *	14.4 *	6.30 **	10.00 *	N BAD
URKANTONE	(232)	0.650	13.3	5.28	9.14	N CB
CH-SAMEN	(261)	0.658	11.9	4.98	7.99	N CB
UAN AUE BL	(290)	0.622	12.6	5.28	8.99	N D
MBT	(291)	0.708	12.9	5.56	8.75	N CB
WANDSCH	(958)	0.589	12.5	5.19	8.61	N CB
ELEMENT	(980)	1.540 **	11.5	5.43	8.67	N AAC

	Statistical Results			
NDA mean	0.6463	12.59	5.228	8.636
NDA st dev	0.0685	0.78	0.233	0.617
N	17	18	18	18
Median	0.6580	12.67	5.245	8.700
MAD	0.0500	0.52	0.165	0.425

Cr (mg/kg)						
BOANALHOAG	(9)	17.0	40.0	17.0	30.0	N CB
ULS	(22)	16.9	36.9	9.0 **	22.1	N CB

	Summary Statistics			
NDA mean	17.11	40.80	15.21	25.85
NDA st dev	0.57	3.79	1.52	2.85
N	21	21	21	21

(cont.)

ISE 2012.1 - Extraction with boiling 2M HNO3

Sample	997	863	865	962	MIC
Cr (mg/kg) (cont.)					
VERITAS (23)	17.1	39.8	13.5	23.8	N CB
FRIDOLIN (29)	18.3 *	43.6	16.4	28.8	N D
RECKENHOLZ (36)	17.3	39.7	16.1	24.1	N CB
AGROCH (75)	16.7	42.9	15.1	26.6	N AAB
FEETS (76)	17.2	43.2	15.7	27.8	N CB
HIDU (82)	17.6	40.0	14.6	24.9	N CB
MERLIN (159)	17.0	37.1	13.8	23.4	N/CB
CHECKSOL (161)	17.2	39.6	15.2	25.2	N AAC
BODEN ZH (162)	16.8	44.1	16.3	29.0	N CB
SCSF (184)	15.6 *	36.7	12.4	24.1	N CB
CLHMC (205)	19.2 **	51.9 *	20.9 **	33.1 *	N BAD
URKANTONE (232)	17.4	43.4	16.3	28.1	N CB
CH-SAMEN (261)	17.4	40.4	14.5	24.8	N CB
UAN AUE BL (290)	15.8 *	40.8	14.9	26.5	N D
MBT (291)	16.6	40.1	14.0	24.4	N CB
LAB607 (862)	19.6 **	37.6	16.7	20.3	
WANDSCH (958)	16.6	39.8	14.4	25.8	N CB
ELEMENT (980)	17.5	45.8	14.8	26.2	N AAA
H62B12 (983)	17.9	44.4	15.9	28.5	N AAC

	Statistical Results			
NDA mean	17.11	40.80	15.21	25.85
NDA st dev	0.57	3.79	1.52	2.85
N	21	21	21	21
Median	17.20	40.10	15.09	25.76
MAD	0.40	2.79	1.09	1.96

Cu (mg/kg)					
BOANALHOAG (9)	4.50	32.0	4.00	12.0	N CB
ULS (22)	4.77	36.0 **	6.58 **	16.1 **	N CB
VERITAS (23)	4.44	31.9	3.45 *	11.3	N CB
FRIDOLIN (29)	4.57	31.5	4.05	11.9	N D
RECKENHOLZ (36)	4.62	32.8	4.17	12.5	N CB
AGROCH (75)	4.57	33.7	4.38	12.5	N AAA
FEETS (76)	4.01 *	32.6	3.88	11.9	N CB
HIDU (82)	4.50	32.3	3.58	12.1	N CB
MERLIN (159)	4.41	31.1	3.90	11.5	N/CB
CHECKSOL (161)	4.62	32.7	4.09	12.0	N AAC
BODEN ZH (162)	4.13	32.9	4.17	12.3	N CB
SCSF (184)	4.52	32.4	3.64	12.3	N CB
CLHMC (205)	5.47 **	33.2	3.30 *	10.3 *	N BAD
URKANTONE (232)	4.53	31.9	4.20	12.0	N CB
CH-SAMEN (261)	4.66	31.9	4.00	11.3	N CB
UAN AUE BL (290)	4.18	30.2 *	3.88	11.8	N D
MBT (291)	4.75	35.7 **	4.14	13.6 *	N CB
LAB607 (862)	5.00	35.6 **	5.00 **	13.2 *	
WANDSCH (958)	6.51 **	31.8	4.17	11.6	N CB
ELEMENT (980)	6.52 **	33.3	4.43	15.6 **	N AAA
H62B12 (983)	3.91 *	30.4 *	3.30 *	11.8	N AAC

	Statistical Results			
NDA mean	4.535	32.29	4.033	11.95
NDA st dev	0.234	0.85	0.264	0.59
N	21	21	21	21
Median	4.570	32.40	4.050	12.00
MAD	0.160	0.56	0.169	0.42

ISE 2012.1 - Extraction with boiling 2M HNO3

Sample		997	863	865	962	MIC
Hg (µg/kg)						
BOANALHOAG	(9)	51.0	90.0	150.0 **	80.0	N G
VERITAS	(23)	54.0	80.0 *	71.0	75.0	N G
FRIDOLIN	(29)	52.0	85.7	75.5	78.9	N G
RECKENHOLZ	(36)	56.2	92.8	78.3	75.0	N G
AGROCH	(75)	56.7	94.4	81.2	83.1	N G
HIDU	(82)	57.5	103.0 *	84.9	82.5	N G
MERLIN	(159)	47.8	99.5	81.8	85.8	N/G
BODEN ZH	(162)	46.4	88.8	72.7	74.8	N F
SCSF	(184)	39.3 **	90.8	76.5	80.3	N G
CLHMC	(205)	55.7	99.6	77.0	89.4 *	N G
URKANTONE	(232)	53.8	91.7	72.8	76.7	N G
CH-SAMEN	(261)	49.1	85.9	68.6	74.8	N G
UAN AUE BL	(290)	53.9	93.4	81.4	81.8	N F
MBT	(291)	50.2	88.7	76.1	72.9	N G
WANDSCH	(958)	51.0	84.0	68.0	77.0	N G
ELEMENT	(980)	54.0	91.0	80.0	79.0	N G

	Statistical Results			
NDA mean	52.78	90.58	76.55	78.66
NDA st dev	3.95	4.75	5.98	5.21
N	16	16	16	16
Median	52.91	90.90	76.75	78.95
MAD	2.75	3.01	4.24	3.75

Mo (mg/kg)						
BOANALHOAG	(9)	0.450	0.300	0.500 *	0.200	N CB
VERITAS	(23)	0.475	0.282	0.376	0.151	N CB
FRIDOLIN	(29)	0.464	0.325	0.426	0.157	N D
AGROCH	(75)	0.420	0.340	0.340	0.110	N AAC
HIDU	(82)	0.430	0.320	0.310	0.250 <	N D
BODEN ZH	(162)	0.419	0.250 <	0.332	0.250 <	N CB
SCSF	(184)	0.502	0.331	0.382	0.201	
CLHMC	(205)	0.300 **	-	0.100 **	-	N BAC
CH-SAMEN	(261)	0.623 **	0.250 <	0.332	0.250 <	N D
UAN AUE BL	(290)	0.431	0.286	0.398	0.162	N D
LAB607	(862)	3.600 **	1.400 **	2.200 **	1.000 <	
WANDSCH	(958)	0.481	0.682 **	0.620 **	0.265	N CB

	Statistical Results			
NDA mean	0.4508	0.3127	0.3681	-
NDA st dev	0.0435	0.0330	0.0658	-
N	12	9	12	7
Median	0.4570	0.3250	0.3790	0.1620
MAD	0.0320	0.0250	0.0470	0.0380

Ni (mg/kg)						
BOANALHOAG	(9)	2.70	32.0	8.50	25.0	N CB
ULS	(22)	2.35	32.1	3.68 **	20.3 *	N CB
VERITAS	(23)	2.38	33.5	6.88	24.2	N CB
FRIDOLIN	(29)	2.87	35.5	7.97	27.0	N D
RECKENHOLZ	(36)	2.67	31.9	6.45	22.5	N CB
AGROCH	(75)	2.48	32.6	6.80	23.9	N AAC
FEETS	(76)	2.63	33.6	6.80	23.3	N CB
HIDU	(82)	2.48	34.6	6.79	26.6	N D
MERLIN	(159)	2.72	31.0	6.55	22.4	N/CB
CHECKSOL	(161)	2.70	32.2	7.50	24.2	N AAC
BODEN ZH	(162)	2.61	36.7	8.03	28.1	N CB
SCSF	(184)	2.60	32.4	6.33	25.3	N CB
CLHMC	(205)	2.94	35.1	8.60	25.9	N BAC

	Summary Statistics			
NDA mean	2.625	33.39	7.235	25.09
NDA st dev	0.179	1.87	0.907	2.27
N	21	21	21	21

(cont.)

ISE 2012.1 - Extraction with boiling 2M HNO3

Sample		997	863	865	962	MIC
Ni (mg/kg) (cont.)						
URKANTONE	(232)	2.60	35.3	7.66	27.3	N CB
CH-SAMEN	(261)	2.59	32.2	6.50	23.1	N CB
UAN AUE BL	(290)	2.49	33.4	7.49	25.8	N D
MBT	(291)	2.75	34.1	7.20	24.5	N CB
LAB607	(862)	3.10 *	25.4 **	7.60	15.6 **	
WANDSCH	(958)	2.73	34.7	8.25	25.8	N CB
ELEMENT	(980)	2.17 *	31.8	6.52	26.1	N AAA
H62B12	(983)	1.98 **	35.3	7.35	27.8	N AAC

	Statistical Results			
NDA mean	2.625	33.39	7.235	25.09
NDA st dev	0.179	1.87	0.907	2.27
N	21	21	21	21
Median	2.610	33.40	7.200	25.00
MAD	0.120	1.30	0.650	1.60

Pb (mg/kg)						
BOANALHOAG	(9)	17.5	70.0	18.0	34.0	N CB
ULS	(22)	17.2	68.9	17.5	31.2	N CB
VERITAS	(23)	16.4	73.2	20.3	31.0	N CB
FRIDOLIN	(29)	17.6	72.3	19.8	30.9	N D
RECKENHOLZ	(36)	16.7	69.5	20.9	30.6	N CB
AGROCH	(75)	17.3	71.9	20.1	31.8	N AAC
FEETS	(76)	16.4	67.6	18.7	27.7	N CB
HIDU	(82)	17.8	77.1	20.8	33.4	N D
MERLIN	(159)	17.1	72.0	21.3	29.3	N CB
CHECKSOL	(161)	17.4	70.5	19.7	30.8	N AAC
BODEN ZH	(162)	16.4	74.2	19.2	31.2	N CB
SCSF	(184)	16.4	70.2	18.8	30.1	N CB
CLHMC	(205)	18.7 *	77.3	24.0 **	34.7 *	N BAD
URKANTONE	(232)	17.1	77.6	19.3	34.4 *	N CB
CH-SAMEN	(261)	19.7 **	64.1	21.3	30.1	N CB
UAN AUE BL	(290)	16.0	69.7	19.1	31.6	N D
MBT	(291)	18.2	67.8	19.5	29.4	N CB
LAB607	(862)	16.8	46.3 **	15.5 **	17.9 **	
WANDSCH	(958)	17.5	69.8	19.2	28.8	N CB
ELEMENT	(980)	16.5	75.0	17.5	29.6	N AAC
H62B12	(983)	30.3 **	75.0	20.4	28.7	N AAE

	Statistical Results			
NDA mean	17.06	71.57	19.60	30.63
NDA st dev	0.82	3.90	1.21	1.79
N	21	21	21	21
Median	17.23	70.50	19.50	30.80
MAD	0.57	2.70	0.80	1.20

Tl (mg/kg)						
FRIDOLIN	(29)	0.0400	0.149	0.0820	0.134	N D
AGROCH	(75)	0.0500 <	0.150	0.0900	0.150	N BAD
HIDU	(82)	0.0500 <	0.150	0.0500	0.120	N D
UAN AUE BL	(290)	0.0560	0.171	0.0930	0.151	N D
WANDSCH	(958)	0.0220	0.109	0.0230	0.098	N BAF

	Statistical Results (no NDA)			
N	3	5	5	5
Median	0.04000	0.1500	0.08200	0.1340
MAD	0.01600	0.0010	0.01100	0.0160

ISE 2012.1 - Extraction with boiling 2M HNO3

Sample		997	863	865	962	MIC
Zn (mg/kg)						
BOANALHOAG	(9)	16.0	170	45.0	100.0 **	N CB
ULS	(22)	13.2 **	150	17.1 **	70.8	N CB
VERITAS	(23)	15.5	177	36.9	75.8	N CB
FRIDOLIN	(29)	16.0	172	40.7	75.2	N D
RECKENHOLZ	(36)	16.9	169	42.3	76.4	N CB
AGROCH	(75)	15.9	173	41.7	78.1	N AAC
FEETS	(76)	15.5	175	36.9	69.1	N CB
HIDU	(82)	16.0	169	37.9	80.9	N CB
MERLIN	(159)	15.3	151	33.9	72.9	N CB
CHECKSOL	(161)	15.5	158	36.2	70.9	N AAC
BODEN ZH	(162)	15.2	175	41.6	81.4	N CB
SCSF	(184)	13.3 **	156	30.3 *	74.0	N CB
CLHMC	(205)	16.8	181	45.7	84.8	N AAC
URKANTONE	(232)	14.6	172	40.4	74.5	N CB
CH-SAMEN	(261)	15.5	163	36.4	72.0	N CB
UAN AUE BL	(290)	13.4 *	154	35.7	69.9	N D
MBT	(291)	17.8 *	174	40.0	79.5	N CB
LAB607	(862)	18.3 **	143 *	40.3	65.0	
WANDSCH	(958)	15.3	161	38.5	77.2	
ELEMENT	(980)	28.3 **	159	62.5 **	98.4 **	N AAC
H62B12	(983)	19.7 **	169	41.4	80.2	N AAC

	Statistical Results			
NDA mean	15.64	167.1	39.23	75.26
NDA st dev	0.75	9.9	4.31	6.19
N	21	21	21	21
Median	15.50	168.6	40.00	75.80
MAD	0.50	6.4	3.10	4.44

ISE 2012.1 - Extraction with 0.1M NaNO3

Sample		997	863	865	962	MIC
Cd (µg/kg)						
FRIDOLIN	(29)	5.94	8.89	8.03	0.330	O D
AGROCH	(75)	5.57	7.47	7.01 *	0.750 <	O BAD
FEETS	(76)	5.00	8.00	8.00	5.000 <	O CB
HIDU	(82)	5.37	9.13	8.35	5.000 <	O D
MERLIN	(159)	5.53	6.51 **	4.82 **	5.000 <	O CB
BODEN ZH	(162)	4.87 *	8.62	7.49	2.500 <	O CB
UAN AUE BL	(290)	5.76	8.91	7.93	1.000 <	O D
WANDSCH	(958)	5.60	8.40	7.90	2.000 <	O CB

	Statistical Results			
NDA mean	5.539	8.538	7.920	-
NDA st dev	0.305	0.674	0.384	-
N	8	8	8	1
Median	5.550	8.510	7.915	0.3300
MAD	0.195	0.455	0.270	-

Cu (µg/kg)						
FRIDOLIN	(29)	70.3	59.8	15.6	73.3	O D
AGROCH	(75)	76.5	68.0	50.0 <	76.4	O BAD
FEETS	(76)	60.0	55.0	24.0	57.0	O CB
HIDU	(82)	50.0 <	55.9	50.0 <	55.9	O D
MERLIN	(159)	62.1	71.8	50.0 <	72.5	O CB
BODEN ZH	(162)	59.0	68.2	50.0 <	72.9	O CB
UAN AUE BL	(290)	55.3	63.7	17.3	62.7	O D
WANDSCH	(958)	53.0	58.0	10.0 <	59.0	O CB

	Statistical Results			
NDA mean	-	62.36	-	66.39
NDA st dev	-	8.28	-	10.28
N	7	8	3	8
Median	60.00	61.75	17.29	67.59
MAD	4.73	6.05	1.70	7.17

Ni (µg/kg)						
FRIDOLIN	(29)	18.8	99 *	97.6	20.3	O D
AGROCH	(75)	29.6	111	105.2	29.6	O BAD
FEETS	(76)	6.0 **	66 **	60.0 **	8.0	O CB
HIDU	(82)	24.8	109	101.0	24.1	O D
MERLIN	(159)	29.5	107	95.4	25.0 <	O CB
BODEN ZH	(162)	28.7	124 **	111.0 *	30.8	O CB
UAN AUE BL	(290)	24.3	112	99.0	25.4	O D
WANDSCH	(958)	26.0	108	100.0	26.0	O CB

	Statistical Results			
NDA mean	26.34	109.1	99.89	-
NDA st dev	4.96	3.7	4.40	-
N	8	8	8	7
Median	25.40	108.5	99.50	25.36
MAD	3.69	2.8	3.04	4.24

Pb (µg/kg)						
FRIDOLIN	(29)	3.90	1.53	9.8	0.160	O D
AGROCH	(75)	25.00 <	25.00 <	25.0 <	25.000 <	O BAD
FEETS	(76)	25.00 <	25.00 <	25.0 <	25.000 <	O CB
HIDU	(82)	25.00 <	25.00 <	25.0 <	25.000 <	O D
MERLIN	(159)	25.00 <	25.00 <	25.0 <	25.000 <	O CB
BODEN ZH	(162)	25.00 <	25.00 <	25.0 <	25.000 <	O CB
UAN AUE BL	(290)	5.10	5.00 <	10.8	5.000 <	O D

	Summary Statistics (No NDA)			
Median	4.500	1.530	10.26	0.1600
MAD	0.600	-	0.51	-
N	2	1	2	1

(cont.)

ISE 2012.1 - Extraction with 0.1M NaNO3

Sample	997	863	865	962	MIC
Pb (µg/kg) (cont.)					
WANDSCH (958)	20.00 <	20.00 <	20.0 <	20.000 <	O CB
===== Statistical Results (no NDA) =====					
N	2	1	2	1	
Median	4.500	1.530	10.26	0.1600	
MAD	0.600	-	0.51	-	
=====					
Zn (µg/kg)					
FRIDOLIN (29)	66.8	169	452	5.7	O D
AGROCH (75)	50.0 <	142	420	50.0 <	O AAC
FEETS (76)	150.0	170	420	20.0	O CB
HIDU (82)	50.0 <	179	441	50.0 <	O D
MERLIN (159)	50.0 <	164	450	50.0 <	O CB
BODEN ZH (162)	51.6	184	497	50.0 <	O CB
UAN AUE BL (290)	42.0	162	399	10.0 <	O D
WANDSCH (958)	46.0	144	477	10.0 <	O CB
===== Statistical Results =====					
NDA mean	-	166.8	442.6	-	
NDA st dev	-	13.5	36.1	-	
N	5	8	8	2	
Median	51.60	166.6	445.4	12.85	
MAD	9.60	8.6	25.4	7.15	
=====					

ISE 2012.1 - Extraction with 0.01M CaCl2 1:10

Sample		997	863	865	962	MIC
B (µg/kg)						
OOSTERBEEK	(4)	281	277	77 <	584	P CB
MARELI	(204)	650	380	150	390	P E
WIKASO	(1040)	1090	519	541	773	P E
WASL-DG	(1082)	1800	2000	1500	1800	
===== Statistical Results (no NDA) =====						
N		4	4	3	4	
Median		870.0	449.5	541.0	678.5	
MAD		404.4	121.2	391.0	191.5	
=====						
Co (µg/kg)						
OOSTERBEEK	(4)	5.93	66.5	583	3.50	P D
===== No Statistical Results =====						
Cu (µg/kg)						
OOSTERBEEK	(4)	53	105	25	87	P D
WASL-DG	(1082)	16400	10100	8500	800	
===== Statistical Results (no NDA) =====						
N		2	2	2	2	
Median		8227	5102	4262	443.3	
MAD		8173	4998	4238	356.8	
=====						
Fe (mg/kg)						
WASL-DG	(1082)	80.0	40.0	141	31.0	
===== No Statistical Results =====						
K (mg/kg)						
OOSTERBEEK	(4)	34.0	54.9	40.4	115	P CB
WAGENINGEN	(14)	32.0	50.0	38.0	113	P CB
ISA	(62)	44.7	58.7	38.5	111	P CA
SIRI	(119)	50.7	58.5	39.0	125	+ AAA
BCIMUZPOL	(132)	41.3	53.3	34.0 **	80	P CA
SPAL	(282)	34.5	44.2	38.6	93	P CA
HLVAKASSEL	(313)	310.0 **	59.4	45.1 **	135	P CB
WIKASO	(1040)	33.7	53.4	39.0	113	P ABA
WASL-DG	(1082)	100.0 **	200.0 **	200.0 **	400 **	
===== Statistical Results =====						
NDA mean		38.09	54.87	38.82	112.8	
NDA st dev		9.94	5.38	1.30	17.0	
N		9	9	9	9	
Median		41.27	54.88	39.00	113.0	
MAD		7.57	3.82	1.00	11.8	
=====						
Mg (mg/kg)						
OOSTERBEEK	(4)	96	281	72.8	115	P CB
ISA	(62)	100	245	89.0	115	P E
SIRI	(119)	51 **	128 **	39.8	58	+ CA
BCIMUZPOL	(132)	45 **	36 **	27.1	25 *	P AAC
HLVAKASSEL	(313)	105	310	85.4	138	P CB
WIKASO	(1040)	105	268	85.6	123	P ABA
WASL-DG	(1082)	198 **	260	162.9 *	206	
TRESE	(1117)	120	1495 **	113.2	162	P AAC
===== Statistical Results =====						
NDA mean		102.8	269.9	79.94	122.7	
NDA st dev		17.2	42.8	31.29	48.1	
N		8	8	8	8	
Median		102.4	263.8	85.50	118.8	
MAD		12.1	32.3	20.20	31.2	

ISE 2012.1 - Extraction with 0.01M CaCl2 1:10

Sample		997	863	865	962	MIC
Mn (mg/kg)						
OOSTERBEEK	(4)	18.45	16.47	107.6	2.286	P CB
BCIMUZPOL	(132)	8.11	1.43	26.5	0.100	P AAC
WASL-DG	(1082)	8.10	3.90	58.0	0.650	
===== Statistical Results (no NDA) =====						
N		3	3	3	3	
Median		8.110	3.900	58.00	0.6500	
MAD		0.010	2.470	31.55	0.5500	
=====						
N - NH4 (as N) (mg/kg)						
OOSTERBEEK	(4)	22.9	9.97	28.0	12.7	P E
WAGENINGEN	(14)	20.6	6.50	23.1	10.8	P E
BCIMUZPOL	(132)	42.3 **	9.42	36.3	15.0	P E
FORTEST	(212)	28.3	20.32 **	43.3 **	23.8 **	Z Z
PIEST-RIPP	(256)	22.9	7.75	22.9	10.3	P E
SPAL	(282)	22.2	6.00	25.5	10.9	P E
PLZMBZEM	(806)	20.2	7.45	24.6	11.4	P E
WASL-DG	(1082)	70.1 **	112.08 **	168.1 **	196.1 **	
===== Statistical Results =====						
NDA mean		22.31	7.799	25.79	11.55	
NDA st dev		3.30	2.277	5.38	2.04	
N		8	8	8	8	
Median		22.90	8.585	26.79	12.07	
MAD		2.50	1.736	3.79	1.52	
=====						
N - NO3 (as N) (mg/kg)						
OOSTERBEEK	(4)	43.2 **	32.8	4.05	25.7	P E
WAGENINGEN	(14)	65.2	29.2	3.50	23.9	P E
BCIMUZPOL	(132)	67.8	30.8	5.74 **	24.1	P E
FORTEST	(212)	75.2	33.9	4.32	23.8	Z Z
PLZMBZEM	(806)	65.8	30.1	3.68	24.8	P E
AGROADGAZA	(971)	80.9	36.8	3.60	29.8 **	P E
WIKASO	(1040)	66.7	29.7	3.52	17.2 **	P E
WASL-DG	(1082)	85.0	40.3 *	3.97	28.3 *	
===== Statistical Results =====						
NDA mean		70.28	31.69	3.772	24.54	
NDA st dev		7.80	3.17	0.371	1.34	
N		8	8	8	8	
Median		67.24	31.80	3.825	24.46	
MAD		4.98	2.11	0.265	0.94	
=====						
N total soluble (mg/kg)						
OOSTERBEEK	(4)	105	69.3	61.5	55.4	P E
WAGENINGEN	(14)	103	63.0	57.0	53.0	P E
BCIMUZPOL	(132)	82	20.1	67.8	29.4	I E
===== Statistical Results (no NDA) =====						
N		3	3	3	3	
Median		103.0	63.00	61.54	53.00	
MAD		2.4	6.31	4.54	2.35	
=====						
Na (mg/kg)						
OOSTERBEEK	(4)	20.9	62.2	5.1 <	24.7	P CB
WAGENINGEN	(14)	19.0	56.0	5.0	24.0	P CB
HLVAKASSEL	(313)	26.3	66.7	8.3	33.9	P CB
===== Summary Statistics (No NDA) =====						
Median		26.30	66.70	16.00	33.90	
MAD		7.30	10.70	9.35	9.24	
N		5	5	4	5	

(cont.)

ISE 2012.1 - Extraction with 0.01M CaCl2 1:10

Sample		997	863	865	962	MIC
Na (mg/kg) (cont.)						
WIKASO	(1040)	38.6	77.9	23.7	42.7	P ABA
WASL-DG	(1082)	100.0	200.0	100.0	100.0	
		===== Statistical Results (no NDA) =====				
N		5	5	4	5	
Median		26.30	66.70	16.00	33.90	
MAD		7.30	10.70	9.35	9.24	
=====						
P (mg/kg)						
OOSTERBEEK	(4)	1.60	0.617	0.205 <	0.755	P E
WAGENINGEN	(14)	1.40	0.600	0.100	0.700	P E
SIRI	(119)	1.39	0.610	0.100	0.780	+ E
BCIMUZPOL	(132)	6.57	3.440	1.250	3.150	P E
WASL-DG	(1082)	81.70	68.500	287.600	10.200	
		===== Statistical Results (no NDA) =====				
N		5	5	4	5	
Median		1.598	0.6170	0.6750	0.7800	
MAD		0.208	0.0170	0.5750	0.0800	
=====						
SO4 (mg/kg)						
FORTEST	(212)	2025	58.6	23.8	197	Z JC
WASL-DG	(1082)	683	19.6	23.0	31	
		===== Statistical Results (no NDA) =====				
N		2	2	2	2	
Median		1354	39.09	23.44	113.8	
MAD		671	19.49	0.41	82.9	
=====						
Zn (µg/kg)						
OOSTERBEEK	(4)	142	447	1128	104 <	P D
BCIMUZPOL	(132)	216	404	416	144	
WASL-DG	(1082)	21800	6300	5500	1500	
		===== Statistical Results (no NDA) =====				
N		3	3	3	2	
Median		216.0	446.5	1128	821.8	
MAD		74.4	42.5	712	678.3	
=====						

ISE 2012.1 - Soil characteristics

Sample		997	863	865	962	MIC
C - org others (W&B a.o.) (g/kg)						
LQA-ATP	(2)	16.1	29.6	33.5	15.4	Z E
ATVC	(7)	19.5	31.3	35.7	17.9	Z E
SABAH	(10)	18.4	14.1 **	29.7	32.7 **	
REDUIT	(15)	24.8	38.1	41.5	22.5	
FRIDOLIN	(29)	19.9	32.3	36.0	18.1	+ O
LAF	(37)	19.8	34.9	38.3	18.0	+ O
RIOJALAB	(45)	17.8	32.2	36.3	18.5	Z O
MSIRI	(48)	18.2	29.6	33.7	15.5	J E
EDAFONEI	(57)	17.3	26.7	32.2	14.7	Z O
DATE	(89)	22.2	37.6	37.6	20.0	Z E
CORBANA	(110)	22.3	32.9	40.4	19.0	
ELAEIS.S	(130)	22.9	32.6	36.9	18.4	
PLATINA222	(172)	23.7	34.8	41.7	19.5	+ E
RISWC	(174)	17.4	28.5	32.6	15.7	+ O
DOLE	(177)	20.8	34.7	39.1	18.5	+ O
NEMALAB	(187)	22.3	35.5	42.4	19.8	+ O
ARIANUM	(255)	22.8	-	-	-	
AGROLAB-SL	(264)	21.3	34.4	40.5	19.0	+ RC
LUNUWILA	(270)	45.3 **	82.0 **	88.6 **	42.0 **	
EVI707	(272)	19.7	32.6	35.5	17.8	
SPAL	(282)	21.0	31.0	40.0	17.0	
Momotombo	(297)	17.1	30.1	34.1	17.1	Z Z
ERSAFVGSCA	(307)	19.5	32.0	42.0	20.0	+ O
SMART	(326)	23.1	33.1	37.1	21.6	
SEEDLING	(346)	22.7	34.1	38.8	19.4	Z E
IRRI	(843)	19.3	30.0	34.9	16.7	Z E
VBBH	(859)	30.6 *	32.7	30.7	32.7 **	Z O
WBT	(866)	24.0	38.0	45.0	22.0	+ O
PASCSAnalab	(870)	21.1	34.0	39.6	19.1	Z O
LABAMB	(878)	16.7	26.4	31.9	14.8	+
CAC	(885)	33.8 **	37.3	36.1	18.4	Z O
RF-R&D	(905)	21.9	29.4	32.8	19.4	+ E
RHODE	(960)	20.2	31.6	39.5	18.2	+ E
MCA	(970)	22.3	32.2	28.4	19.4	
AGROADGAZA	(971)	24.1	37.4	43.4	20.8	Z E
LS-MRC	(978)	16.4	33.1	34.4	12.6 *	Z O
LABZIB	(1013)	17.8	29.9	34.6	16.9	Z O
SMART-BGR	(1016)	11.6 *	39.5	39.5	18.0	Z O
SUMIFRU	(1026)	18.2	31.2	36.5	16.7	+ O
LASPEE	(1036)	26.2	38.3	37.3	25.4 **	Z E
BIOLAB	(1061)	21.0	33.2	40.3	18.3	
KUDAROOT	(1063)	17.9	20.2 **	20.6 **	51.2 **	+ O
NALARAC	(1076)	15.4	13.9 **	13.2 **	13.6 *	O
WASL-DG	(1082)	37.2 **	57.8 **	30.4	66.9 **	
LABTECCOL	(1087)	15.5	25.2 *	30.4	17.0	

	Statistical Results			
NDA mean	20.17	32.72	36.66	18.22
NDA st dev	3.63	3.70	4.86	2.15
N	45	44	44	44
Median	20.80	32.60	36.41	18.45
MAD	2.58	2.57	3.41	1.48

EC-SC (ISO 11265) (mS/m)						
ALCONTROL	(1)	79.0	18.0	2.50 < **	31.0	Z IA
LQA-ATP	(2)	76.2	19.1	10.75	26.1	Z RC
OOSTERBEEK	(4)	88.0	14.9	9.23	29.0	Z Z
LAF	(37)	89.0	16.0	10.00	30.0	Z Z
RIOJALAB	(45)	84.4	14.4	8.80	26.8	Z Z
EDAFONEI	(57)	87.3	18.3	11.10	30.6	Z Z

	Summary Statistics				
NDA mean	86.64	15.36	9.647	28.41	
NDA st dev	5.74	2.56	1.928	2.12	
N	29	31	29	30	(cont.)

ISE 2012.1 - Soil characteristics

Sample		997	863	865	962	MIC
EC-SC (ISO 11265) (mS/m) (cont.)						
SAINTE-FOY	(80)	78.8	12.2	8.10	25.0	Z RC
CISCA	(112)	81.9	14.2	10.83	28.4	Z Z
SIRI	(119)	81.9	17.9	11.20	33.7 *	+ H
XGCALAFIGA	(135)	85.0	14.0	8.60	27.0	Z RC
HHAFU	(136)	96.0	17.4	10.13	35.0 **	Z
HILL	(180)	85.0	14.0	8.00	28.0	Z Z
MARELI	(204)	96.0	19.0	14.00 *	29.0	Z Z
QLDNR&M	(210)	91.0	15.0	9.00	29.0	Z Z
FORTEST	(212)	88.8	14.3	9.00	27.9	Z Z
AECAGRICS	(248)	-	12.7	7.28	27.6	Z Z
ARIANUM	(255)	-	19.2	-	-	+ IA
AGROLAB-SL	(264)	87.0	14.7	9.56	29.2	Z RC
LUNUWILA	(270)	8.2 **	115.4 **	69.30 **	214.0 **	
Momotombo	(297)	74.8 *	14.4	8.86	27.3	Z Z
VBBH	(859)	88.6	15.7	11.70	29.7	Z Z
LABAMB	(878)	59.5 **	10.5	7.50	21.0 **	Z
AGROADGAZA	(971)	91.0	18.0	12.00	29.0	
LDAR02	(984)	87.0	14.3	8.65	27.1	+ H
LABZIB	(1013)	91.3	13.3	12.00	27.9	Z RC
WIKASO	(1040)	88.8	16.6	10.90	29.7	Z Z
KARI-NARL	(1046)	86.9	19.9	12.65	37.4 **	Z H
BIOLAB	(1061)	80.5	12.2	7.10	24.2	
INNOAGRAL	(1062)	88.4	15.9	9.55	29.9	+ RC
KUDAROOT	(1063)	34.6 **	31.9 **	34.20 **	42.2 **	+ H
WASL-DG	(1082)	87.9	13.8	8.60	27.6	

	Statistical Results			
NDA mean	86.64	15.36	9.647	28.41
NDA st dev	5.74	2.56	1.928	2.12
N	29	31	29	30
Median	86.96	15.00	9.560	28.99
MAD	4.04	1.70	1.340	1.50

Fraction < 16 µm (%)						
ALCONTROL	(1)	6.40	81.0	39.0	48.0 *	Z R
ATVC	(7)	9.00	90.8	55.5	69.8	Z Z
RIOJALAB	(45)	74.64 **	58.3 **	15.8 **	72.4 *	\$ RC
MLABTW	(70)	8.09	85.9	46.1	62.1	Z RA
US	(83)	7.03	85.6	48.2	56.8	X RA
CISCA	(112)	9.04	-	-	-	- R
RISWC	(174)	9.30	81.7	50.0	63.7	- RA
ALNN	(185)	-	85.3	48.5	56.2	
Deltares	(293)	10.58	86.9	44.9	60.5	Z RC
WBT	(866)	-	95.4	63.3 *	78.3 **	- RC
LABAMB	(878)	13.90 **	72.5 *	43.0	59.6	RB
CAC	(885)	8.12	84.8	39.8	59.5	Z RA
MCA	(970)	4.00 *	24.0 **	16.0 **	36.0 **	
AGROADGAZA	(971)	9.20	73.5	45.6	63.3	Z RC

	Statistical Results			
NDA mean	8.524	84.75	46.14	61.15
NDA st dev	1.783	5.70	6.21	5.55
N	12	13	13	13
Median	9.022	84.81	45.60	60.45
MAD	1.244	3.81	4.40	3.63

Fraction < 2 µm (%)						
ALCONTROL	(1)	3.10	54.0	17.0	25.0	Z R
OOSTERBEEK	(4)	2.03	59.9	21.4	37.0	Z RA

	Summary Statistics				
NDA mean	3.929	58.23	20.34	35.39	
NDA st dev	0.973	6.38	5.20	5.50	
N	29	30	32	32	(cont.)

ISE 2012.1 - Soil characteristics

Sample	997	863	865	962	MIC
Fraction < 2 µm (%) (cont.)					
ATVC (7)	4.25	57.1	22.5	33.2	Z Z
HAMELN (25)	4.30	62.5	22.0	39.8	Z R
RIOJALAB (45)	6.17 *	33.6 **	19.1	19.8 *	\$ RC
LRSCONTROL (63)	3.74	61.6	24.3	39.1	- RA
TCKI (64)	5.00 <	56.0	19.0	38.0	Z R
MLABTW (70)	5.34	59.0	23.2	39.0	Z RA
ARCHIMEDES (73)	3.60	54.5	-	-	- R
AL-West (78)	4.03	-	-	-	Z RC
US (83)	3.45	59.0	21.0	36.2	X RA
GGM (98)	4.07	54.4	19.4	33.9	Z RA
CISCA (112)	7.00 **	-	19.6	37.1	- R
NSSL (167)	4.00	62.2	23.8	41.4	- RA
RISWC (174)	4.00 <	42.4 *	15.5	33.3	- RA
ALNN (185)	-	57.7	21.1	31.7	Z P
EXACT (190)	3.30	55.0	20.0	35.0	Z RA
CHEMLAB (228)	4.10	58.0	22.0	36.0	Z RA
AGROLAB-SL (264)	3.40	63.7	27.7	36.6	Z R
IGEOLUNAM (273)	4.80	53.6	13.2	37.0	Z RA
APVROPAVA (287)	4.20	46.7	35.9 *	14.7 **	Z RA
Deltares (293)	6.49 *	60.4	32.8 *	32.3	Z RC
SPOOR (305)	-	-	20.0	29.0	Z R
ERSAFVGSCA (307)	3.00	39.5 *	11.5	24.5	Z RA
IRRI (843)	4.52	60.4	24.4	35.8	Z RB
SPASL (855)	14.82 **	54.1	18.0	38.8	\$ RB
VBBH (859)	3.70	63.6	23.6	42.2	Z R
WBT (866)	-	66.5	29.3	49.3 *	- RC
LABAMB (878)	5.00	29.9 **	10.1	16.3 **	R
CAC (885)	3.46	33.0 **	8.0 *	15.0 **	Z RA
RF-R&D (905)	3.51	-	26.4	35.9	\$ P
MCA (970)	8.00 **	66.0	16.0	26.0	
AGROADGAZA (971)	3.20	37.2 **	11.4	26.9	Z RC
WIKASO (1040)	6.10 *	33.9 **	12.2	14.4 **	Z RA

	Statistical Results			
NDA mean	3.929	58.23	20.34	35.39
NDA st dev	0.973	6.38	5.20	5.50
N	29	30	32	32
Median	4.073	56.55	20.48	35.39
MAD	0.673	4.43	3.40	3.66

Fraction < 63 µm (%)					
ALCONTROL (1)	17.0	85.0 *	58.0	69.0 **	Z R
ATVC (7)	14.5	95.0	70.0	89.4	Z Z
HAMELN (25)	20.3	96.1	80.5	94.2	Z R
RIOJALAB (45)	95.5 **	87.0 *	29.0 **	80.9 *	\$ RC
LRSCONTROL (63)	12.6	97.7	73.2	92.9	- RA
US (83)	21.3	97.6	83.0	97.0	X RA
CISCA (112)	18.3	-	-	-	- R
RISWC (174)	22.3	95.4	78.6	95.4	- RA
IGEOLUNAM (273)	27.8	98.2	83.1	98.3	Z RA
APVROPAVA (287)	19.7	94.8	91.3	75.1 **	Z RA
Deltares (293)	19.9	98.2	71.2	95.1	Z RC
ERSAFVGSCA (307)	15.0	50.7 **	52.5 *	66.0 **	Z RA
IRRI (843)	35.7 **	98.2	86.2	97.9	Z RB
SPASL (855)	24.4	94.2	67.8	87.3	\$ RB
WBT (866)	21.2	96.9	80.9	95.8	- RC
LABAMB (878)	21.1	96.8	78.8	95.2	R
CAC (885)	19.3	99.9	77.9	100.0	Z RA
RF-R&D (905)	17.1	-	84.1	96.2	\$ P
MCA (970)	88.0 **	10.0 **	68.0	38.0 **	

	Summary Statistics			
NDA mean	19.70	96.32	76.04	94.54
NDA st dev	4.47	3.80	10.77	5.15
N	21	19	20	20

(cont.)

ISE 2012.1 - Soil characteristics

Sample	997	863	865	962	MIC
Fraction < 63 µm (%) (cont.)					
AGROADGAZA (971)	25.8	81.1 **	73.0	91.5	Z RC
WIKASO (1040)	18.6	89.9	59.1	92.1	Z RA
===== Statistical Results =====					
NDA mean	19.70	96.32	76.04	94.54	
NDA st dev	4.47	3.80	10.77	5.15	
N	21	19	20	20	
Median	20.30	95.40	75.55	93.55	
MAD	3.20	2.79	7.47	3.80	
=====					
Fraction > 63 µm (%)					
HAMELN (25)	78.5	3.50	18.4	5.00	Z R
RIOJALAB (45)	4.5 **	13.00 **	71.0 **	19.13 **	\$ RC
LRSCONTROL (63)	87.4	2.27	26.8	7.10	- R
TCKI (64)	85.0	4.00	28.0	7.00	Z R
IGEOLUNAM (273)	72.2	1.80	17.0	1.70	Z RA
Deltares (293)	80.1	1.79	28.8	4.90	Z RC
ERSAFVGSCA (307)	82.0	9.80 *	36.0	9.50	Z RA
IRRI (843)	64.3 **	1.81	13.9	2.07	Z RB
SPASL (855)	75.7	5.79	32.2	12.73 *	\$ RB
LABAMB (878)	78.9	3.20	21.2	4.80	R
CAC (885)	80.7	0.10	22.1	0.10 <	Z RA
RF-R&D (905)	82.9	-	15.9	3.81	\$ P
AGROADGAZA (971)	74.2	18.90 **	27.0	8.50	Z RC
WIKASO (1040)	81.4	10.10 *	40.9	7.90	Z RA
===== Statistical Results =====					
NDA mean	79.92	2.860	24.74	6.012	
NDA st dev	5.20	2.480	9.87	3.243	
N	14	13	14	13	
Median	79.52	3.500	26.89	7.000	
MAD	3.62	1.710	7.09	2.200	
=====					
Org.matter (L.O.I.) (%)					
ALCONTROL (1)	3.97	15.3 **	10.70 **	7.32	P
OOSTERBEEK (4)	4.22	10.9	9.23	5.50	X P
KUCHING (12)	3.80 *	7.6 **	8.02 **	3.44 *	
WAGENINGEN (14)	4.50	11.3	9.40	5.90	X P
MLABTW (70)	4.10	11.8	9.80	6.10	---
ARCHIMEDES (73)	4.28	11.0	-	-	Z Z
AL-West (78)	4.07	-	-	-	X P
SAINTE-FOY (80)	4.40	11.7	9.60	6.70	X P
US (83)	4.19	11.1	9.24	5.78	X Z
GGM (98)	4.75 *	13.7 **	10.83 **	8.51 *	---
CISCA (112)	4.18	11.6	9.32	5.84	Z P
VICTORY (123)	4.33	11.5	9.69	5.90	X P
BCIMUZPOL (132)	4.57	10.9	9.55	6.23	Z P
XGCALAFIGA (135)	4.12	10.6	9.09	5.40	X P
HHAFU (136)	4.19	11.4	9.45	5.96	P
ALNN (185)	4.31	10.7	9.22	5.38	\$ P
EXACT (190)	4.23	11.6	9.39	6.00	Z P
FORTEST (212)	4.30	9.4 *	8.66	4.28	P
CHEMLAB (228)	3.85 *	11.1	9.24	5.94	Z P
AECSAGRICS (248)	-	11.9	9.77	7.00	
Deltares (293)	4.13	11.7	9.61	6.61	X P
SPOOR (305)	-	-	9.40	6.00	Z P
CHRON (424)	4.65 *	11.5	10.00	6.30	
SPASL (855)	4.24	9.1 **	9.06	4.40	X
WBT (866)	4.17	8.5 **	8.63	4.53	X P
===== Summary Statistics =====					
NDA mean	4.248	11.31	9.404	6.003	
NDA st dev	0.187	0.71	0.409	0.976	
N	32	32	32	32	(cont.)

ISE 2012.1 - Soil characteristics

Sample		997	863	865	962	MIC
Org.matter (L.O.I.) (%) (cont.)						
PASCAanalab	(870)	4.40	11.8	9.60	6.94	X P
RLD	(893)	4.37	14.5 **	9.85	7.14	Z Z
RF-R&D	(905)	5.24 **	14.4 **	11.11 **	8.06 *	\$ P
CHEZL	(961)	5.50 **	16.6 **	11.70 **	8.60 *	X P
SAC-CAL	(973)	4.23	11.5	9.42	9.15 **	X P
ABER	(1001)	4.25	11.7	9.52	6.47	\$ P
LASPEE	(1036)	4.51	6.6 **	6.42 **	4.37	Z E
WIKASO	(1040)	3.88	9.4 *	8.92	3.92 *	X P
CDAgrogand	(1085)	4.36	10.4	9.11	5.36	
===== Statistical Results =====						
NDA mean		4.248	11.31	9.404	6.003	
NDA st dev		0.187	0.71	0.409	0.976	
N		32	32	32	32	
Median		4.242	11.45	9.410	5.980	
MAD		0.125	0.51	0.290	0.625	
=====						
pH - CaCl2 (...)						
ALCONTROL	(1)	6.10	5.60	4.30	6.70 **	PI Z
OOSTERBEEK	(4)	-	5.56	4.36	7.43	Z H
WAGENINGEN	(14)	6.00	5.50	4.29	7.63	P H
SOILINST	(43)	6.02	5.50	4.25	7.28	\$ H
POULAIN	(51)	5.68 *	5.43	4.21	7.18	P H
ISA	(62)	5.90	5.50	4.30	7.20	P RC
LRSCONTROL	(63)	5.88	5.43	4.20	7.45	Z IA
MLABTW	(70)	6.08	5.59	4.30	7.36	Z H
ARCHIMEDES	(73)	6.32 *	5.11 **	-	-	\$ Z
AL-West	(78)	5.97	-	-	-	P H
SAINTE-FOY	(80)	5.69 *	5.51	4.36	7.04	Z H
US	(83)	5.97	5.50	4.31	7.41	X Z
CISCA	(112)	-	-	3.98 **	7.08	\$ Z
SIRI	(119)	5.99	5.50	4.35	7.53	+ H
BCIMUZPOL	(132)	6.25	5.90 **	5.18 **	6.94 *	+ H
LABVAL	(133)	6.00	5.60	4.40	7.40	Z Z
HHAFU	(136)	6.24	5.87 **	4.78 **	7.68 *	\$ H
NSSL	(167)	5.90	5.50	4.30	7.30	+ Z
DOLE	(177)	6.02	5.53	4.34	7.32	+ H
HILL	(180)	5.90	5.50	4.20	7.40	+ H
EXACT	(190)	6.40 **	5.90 **	4.40	6.70 **	P Z
QLDNR&M	(210)	5.90	5.40	4.20	7.30	Z Z
FORTEST	(212)	5.90	5.44	4.25	7.34	Z H
CHEMLAB	(228)	6.30 *	5.60	4.30	7.40	P H
EVI707	(272)	5.94	5.45	4.24	7.49	
MUMPFROG	(275)	5.93	5.47	4.24	7.32	Z Z
DAR	(296)	6.17	5.52	4.29	7.21	Z H
HLVAKASSEL	(313)	6.05	5.51	4.35	7.33	Z Z
NFVGOE	(321)	6.21	5.59	4.33	7.31	\$ H
FVABW	(322)	6.02	5.50	4.32	7.35	\$ H
SEEDLING	(346)	6.11	5.52	4.25	7.14	+ H
CHRON	(424)	5.80	5.40	4.20	7.30	\$ H
IRRI	(843)	5.88	5.39	4.20	7.32	Z RC
SPASL	(855)	5.82	5.43	4.23	7.24	\$ Z
CHEMHAL	(877)	5.94	5.47	4.31	7.44	P
SAC-CAL	(973)	5.90	5.50	4.30	7.30	Z H
LABZIB	(1013)	5.90	5.65	4.45	7.20	
EASRETH	(1022)	6.03	5.65	4.41	7.37	+ Z
WIKASO	(1040)	5.97	5.61	4.34	7.44	Z Z
BIOLAB	(1061)	6.39 *	5.85 **	4.50 *	7.45	
RTCZ	(1114)	6.13	5.63	4.43	7.58	
===== Summary Statistics =====						
NDA mean		5.980	5.512	4.299	7.342	
NDA st dev		0.137	0.094	0.085	0.155	
N		39	39	39	39	(cont.)

ISE 2012.1 - Soil characteristics

Sample		997	863	865	962	MIC
pH - CaCl2 (...) (cont.)						
		===== Statistical Results =====				
NDA mean		5.980	5.512	4.299	7.342	
NDA st dev		0.137	0.094	0.085	0.155	
N		39	39	39	39	
Median		5.990	5.500	4.300	7.320	
MAD		0.090	0.068	0.060	0.110	
=====						
pH - H2O (...)						
ALCONTROL	(1)	6.30	6.40 *	5.10	7.20	IA
LQA-ATP	(2)	6.20	6.20	4.90	7.80	Z Z
ATVC	(7)	6.10	6.00	4.80	7.70	Z Z
SABAH	(10)	6.65 *	7.76 **	6.34 **	5.24 **	Z Z
KUCHING	(12)	6.20	6.00	4.70	7.50	Z Z
FELDA	(13)	5.90	5.20 **	3.80 **	6.30 **	Z Z
WAGENINGEN	(14)	6.16	6.17	4.96	8.13	Z H
REDUIT	(15)	6.03	5.97	4.75	7.71	
IUNGPUL	(32)	6.22	6.04	4.95	7.61	Z Z
LAF	(37)	6.40	6.30	4.90	7.90	Z Z
BELFAST	(39)	6.10	6.11	4.86	7.83	Z H
RIOJALAB	(45)	6.44	6.30	5.15	7.74	Z H
MSIRI	(48)	6.08	5.96	4.76	7.82	Z Z
EDAFONEI	(57)	6.22	6.16	4.93	7.92	Z Z
LRSCONTROL	(63)	6.01	6.05	4.90	8.04	Z IA
MLABTW	(70)	6.35	6.21	4.93	7.66	Z H
SAINTE-FOY	(80)	6.00	6.10	4.87	7.37	Z H
DATE	(89)	6.50	6.02	4.65	7.72	Z Z
974BRET	(99)	5.96	6.02	4.79	7.76	Z H
CORBANA	(110)	6.01	6.05	5.03	7.73	
SIRI	(119)	6.20	6.13	4.96	8.11	+ H
UAK MARDI	(120)	6.27	6.20	5.02	7.37	
ELAEIS.S	(130)	5.91	5.19 **	4.71	7.41	
BCIMUZPOL	(132)	6.22	5.93	4.80	7.14	Z H
XGCALAFIGA	(135)	6.12	6.11	4.93	7.86	Z Z
HHAFU	(136)	6.31	6.30	5.20 *	8.15	\$ H
NSSL	(167)	6.00	6.10	4.90	7.60	+ Z
PLATINA222	(172)	5.97	5.93	4.73	7.63	Z RC
DOLE	(177)	6.15	6.11	5.01	7.70	+ H
HILL	(180)	6.10	6.00	4.90	7.60	+ H
CSS	(186)	6.40	6.40 *	5.10	7.90	Z H
NEMALAB	(187)	6.00	5.90	4.60	7.60	\$ H
LABORECOF	(194)	6.13	6.00	4.85	8.11	Z H
MARELI	(204)	6.20	6.10	4.90	7.90	Z H
QLDNR&M	(210)	6.00	5.90	4.70	7.70	Z Z
FORTEST	(212)	5.95	5.73	4.63	7.47	Z H
GSISMA	(214)	6.31	6.09	4.92	7.63	Z H
AQUON	(216)	6.33	6.20	4.85	7.73	
KLAL	(233)	6.22	5.91	4.78	7.47	Z H
CIRADFLHOR	(249)	6.16	6.07	4.89	7.79	Z RC
AARDVARKAA	(250)	6.20	5.93	4.72	7.75	
ARIANUM	(255)	-	6.02	-	-	+ H
AGROLAB-SL	(264)	6.17	6.00	4.73	7.40	Z RC
LUNUWILA	(270)	5.45 **	5.59 *	4.56	6.76 **	
EVI707	(272)	6.19	6.09	4.87	8.06	
IGEOLUNAM	(273)	6.53	5.96	4.63	7.43	Z H
MUMPFROG	(275)	6.08	6.03	4.85	7.92	Z Z
SPAL	(282)	6.20	6.32	5.04	7.86	Z Z
Momotombo	(297)	5.99	5.87	4.69	7.61	Z Z
ANALGEO	(300)	6.30	6.08	4.85	7.94	Z H
HLVAKASSEL	(313)	6.17	6.11	4.99	7.80	Z Z
NFVGOE	(321)	6.37	6.23	4.97	7.82	\$ H
=====						
		Summary Statistics				
NDA mean		6.140	6.040	4.829	7.665	
NDA st dev		0.199	0.169	0.176	0.280	
N		83	84	84	83	(cont.)

ISE 2012.1 - Soil characteristics

Sample	997	863	865	962	MIC
pH - H2O (...) (cont.)					
FVABW (322)	6.22	6.16	4.91	7.89	\$ H
SMART (326)	5.99	5.90	4.73	7.56	
GLAGC (327)	6.40	6.20	5.00	7.80	\$ H
SEEDLING (346)	6.33	6.06	4.83	7.58	+ H
CHRON (424)	6.00	5.90	4.70	7.70	
IRRI (843)	6.06	5.72	4.70	7.58	Z RC
SPASL (855)	5.94	5.81	4.73	7.50	\$ Z
PASCAanalab (870)	5.96	5.96	4.74	7.53	X H
LABAMB (878)	6.15	5.75	4.64	7.25	+
CRC (884)	5.93	5.77	4.67	7.37	Z Z
CAC (885)	5.99	5.65 *	4.40 *	7.21	Z Z
LABGLEB (922)	-	-	4.96	-	
RHODE (960)	6.05	5.80	4.63	7.53	+ H
MCA (970)	5.72 *	6.09	5.06	6.54 **	
AGROADGAZA (971)	6.29	6.16	4.89	7.91	
LS-MRC (978)	6.76 **	6.06	4.69	7.37	Z H
EALG (981)	6.18	5.68 *	4.55	7.25	S H
ABER (1001)	6.21	6.11	4.90	7.97	+ H
LABZIB (1013)	6.20	6.10	4.85	7.65	Z H
SMART-BGR (1016)	6.28	6.02	4.71	7.24	\$ H
SUMIFRU (1026)	5.91	5.96	4.82	7.46	+ H
LASPEE (1036)	5.81	5.79	4.73	7.45	
WIKASO (1040)	6.19	6.14	4.82	7.82	Z Z
KARI-NARL (1046)	6.12	6.00	5.09	6.80 **	\$ H
LUNLAB (1052)	6.39	6.20	5.26 *	7.55	Z H
BIOLAB (1061)	6.14	5.82	4.57	7.25	
INNOAGRAL (1062)	5.94	5.74	4.64	7.63	Z RC
KUDAROOT (1063)	4.61 **	7.28 **	5.78 **	7.02 *	\$ H
NALARAC (1076)	5.91	5.89	4.64	7.07 *	+ H
WASL-DG (1082)	6.13	6.07	4.87	7.87	
CDAgrogand (1085)	6.08	6.06	4.85	7.71	
LABTECCOL (1087)	5.76	5.60 *	4.54	7.47	
RTCZ (1114)	6.26	6.24	5.03	8.14	

	Statistical Results			
NDA mean	6.140	6.040	4.829	7.665
NDA st dev	0.199	0.169	0.176	0.280
N	83	84	84	83
Median	6.150	6.045	4.850	7.630
MAD	0.140	0.115	0.122	0.190

pH - KCl (...)					
ALCONTROL (1)	6.10	5.10	3.90	6.90	IA
LQA-ATP (2)	5.80	4.90	3.70	7.00	Z Z
OOSTERBEEK (4)	5.92	4.94	3.94	7.00	P H
SABAH (10)	6.52 **	7.45 **	5.92 **	4.68 **	Z Z
WAGENINGEN (14)	6.04	5.00	3.93	7.44	Z H
IUNGPUL (32)	6.04	5.00	3.90	7.20	Z Z
LRSCONTROL (63)	5.91	4.96	3.84	7.37	Z IA
MLABTW (70)	6.25	5.08	3.97	7.35	Z H
DATE (89)	6.29 *	5.02	3.92	7.04	Z Z
974BRET (99)	5.85	4.90	3.79	7.08	Z H
CISCA (112)	6.11	5.16	-	-	\$ Z
BCIMUZPOL (132)	6.04	4.96	3.87	6.75	Z H
XGCALAFIGA (135)	6.04	5.03	3.92	7.19	Z Z
ETMKK (166)	5.89	4.98	3.91	6.94	
RISWC (174)	6.11	5.07	3.92	6.85	+ Z
DOLE (177)	6.02	5.03	3.95	7.16	+ H
ALNN (185)	6.29 *	5.05	3.91	7.34	Z CB
CSS (186)	6.10	5.00	3.90	7.00	Z Z

	Summary Statistics			
NDA mean	6.009	4.997	3.901	7.118
NDA st dev	0.138	0.116	0.121	0.260
N	46	46	46	45

(cont.)

ISE 2012.1 - Soil characteristics

Sample	997	863	865	962	MIC
pH - KCl (...) (cont.)					
LABORECOF (194)	5.86	4.92	3.82	7.26	Z H
KLAL (233)	5.89	4.87	3.81	6.94	Z H
CIRADFLHOR (249)	5.87	4.70 *	3.66	6.95	Z RC
AGROLAB-SL (264)	5.96	4.87	3.73	6.87	Z RC
EVI707 (272)	6.06	4.99	3.86	7.37	
IGEOLUNAM (273)	6.09	4.91	3.77	6.97	Z RC
MUMPFROG (275)	5.98	4.97	3.87	7.29	Z Z
SPAL (282)	6.06	5.08	4.01	7.12	Z Z
ERSAFVGSACA (307)	6.59 **	5.37 **	4.03	6.76	Z H
HLVAKASSEL (313)	6.11	5.10	4.01	7.33	
NFVGOE (321)	6.05	4.99	3.93	7.27	\$ H
FVABW (322)	6.01	4.97	3.88	7.29	\$ H
SMART (326)	5.91	4.85	3.76	7.16	
GLAGC (327)	6.00	5.10	4.00	7.40	\$ H
IRRI (843)	5.92	4.74 *	3.66	6.89	Z RC
VBBH (859)	6.12	5.05	4.01	7.42	Z Z
CRC (884)	5.72 *	4.75 *	3.74	6.84	Z Z
RLD (893)	5.98	5.03	3.89	6.95	Z
LABGLEB (922)	-	-	3.92	-	
MCA (970)	5.56 **	4.96	3.87	6.45 *	
AGROLAB (977)	6.01	5.06	3.97	7.19	H
LS-MRC (978)	6.72 **	5.90 **	4.56 **	7.30	Z H
LABZIB (1013)	5.85	5.15	4.00	6.90	Z H
SMART-BGR (1016)	5.86	4.77	3.67	6.86	\$ H
LASPEE (1036)	5.70 *	4.88	3.80	6.94	
WIKASO (1040)	6.05	5.30 *	4.12	7.22	Z Z
BIOLAB (1061)	6.30 *	5.51 **	4.06	7.28	
RTCZ (1114)	6.15	5.14	4.04	7.45	
TRESE (1117)	6.11	5.07	3.99	7.29	Z H

	Statistical Results			
NDA mean	6.009	4.997	3.901	7.118
NDA st dev	0.138	0.116	0.121	0.260
N	46	46	46	45
Median	6.040	5.000	3.910	7.120
MAD	0.093	0.080	0.085	0.180

TC=Total C (org.+inorg.) (g/kg)					
OOSTERBEEK (4)	20.5	36.2	40.1	28.4	X RC
ATVC (7)	23.1	36.7	42.8	29.1	X JA
MONICA (24)	21.5	35.0	40.0	27.6	X JA
BELFAST (39)	23.8	37.3	41.0	29.0	X JA
RIOJALAB (45)	21.6	35.9	40.7	28.5	X N
EXTAQS (52)	20.9	36.0	41.8	28.7	
LRSCONTROL (63)	22.9	38.3	42.5	-	X N
TCKI (64)	24.0	40.0 *	46.0 **	30.0	
SAINTE-FOY (80)	22.6	38.3	42.0	30.0	X N
GAL (95)	21.6	37.4	39.6	27.8	X N
VICTORY (123)	20.4	37.0	40.4	29.5	X N
XGCALAFIGA (135)	21.6	36.9	41.2	28.6	X N
NSSL (167)	28.6 **	39.4 *	43.7 *	29.9	
HILL (180)	18.4 *	34.1	39.8	27.6	X Z
LABORECOF (194)	20.7	36.7	40.4	29.0	X N
ARCWSG (238)	21.8	37.2	41.3	29.1	X Z
IGEOLUNAM (273)	23.4	36.4	41.0	28.3	X RC
SeqBioMpl (274)	23.8	35.7	40.3	29.1	X RC
MUMPFROG (275)	21.9	34.9	39.7	27.8	X Z
Deltares (293)	21.6	37.9	42.1	29.1	X N
RALA (299)	21.7	34.2	41.3	28.1	X
HLVAKASSEL (313)	1.9 **	34.4	39.9	27.8	

	Summary Statistics				
NDA mean	22.02	36.14	40.75	28.65	
NDA st dev	1.39	1.56	1.22	0.97	
N	34	35	34	34	(cont.)

ISE 2012.1 - Soil characteristics

Sample		997	863	865	962	MIC
TC=Total C (org.+inorg.) (g/kg) (cont.)						
NFVGOE	(321)	21.6	34.8	40.5	28.1	X JA
FVABW	(322)	23.1	36.5	42.4	29.6	X RC
GLAGC	(327)	21.3	35.0	41.4	29.0	X Z
CHRON	(424)	28.0 **	35.0	40.0	28.0	X N
IRRI	(843)	24.2	35.3	40.6	28.4	X Z
SPASL	(855)	22.6	36.6	41.0	28.9	X
VBBH	(859)	22.3	34.9	39.5	27.8	X N
WBT	(866)	21.7	35.3	38.3 *	27.7	X N
CHEMHAL	(877)	21.0	36.3	41.0	29.8	\$ N
LSF	(895)	22.5	31.8 *	39.0	32.1 **	
LABGLEB	(922)	-	34.9	-	28.1	
AGROLAB	(977)	19.8	37.3	40.1	29.3	X N
RTCZ	(1114)	23.6	40.3 *	42.4	31.7 **	

	Statistical Results			
NDA mean	22.02	36.14	40.75	28.65
NDA st dev	1.39	1.56	1.22	0.97
N	34	35	34	34
Median	21.74	36.32	40.82	28.80
MAD	0.96	1.05	0.84	0.69

TIC=Tot.Inorg C(CaCO3) (%)						
ALCONTROL	(1)	0.200 <	0.200 <	0.200 <	11.00 *	X P
ATVC	(7)	5.000 <	5.000 <	5.000 <	10.00	Z Z
SOILINST	(43)	-	-	-	7.99	Z Z
RIOJALAB	(45)	-	-	-	8.58	Z N
POULAIN	(51)	4.500 **	4.110 **	4.350	13.52 **	Z RC
EXTAQS	(52)	0.800 <	0.800 <	0.800 <	8.60	
EDAFONEI	(57)	0.440	0.850	-	-	O
ISA	(62)	0.100 <	0.120	0.100 <	7.60	
LRSCONTROL	(63)	0.510 <	0.510 <	0.510 <	8.62	+ Z
TCKI	(64)	-	-	-	11.00 *	Z Z
MLABTW	(70)	0.500 <	0.500 <	0.500 <	9.00	Z P
ARCHIMEDES	(73)	0.100 <	0.100 <	-	-	Z Z
US	(83)	0.010	0.040	0.020	8.99	X O
DATE	(89)	0.500 <	0.500 <	0.500 <	8.71	Z
CISCA	(112)	0.100 <	0.100 <	0.500 <	8.78	Z Z
VICTORY	(123)	0.250 <	0.250 <	0.250 <	7.05	X O
NSSL	(167)	-	-	-	9.00	
ALNN	(185)	0.500 <	0.500 <	0.500 <	8.60	Z P
GSISMA	(214)	0.500 <	0.500 <	0.500 <	4.50 **	Z Z
AQUON	(216)	0.100 <	0.100 <	0.100 <	7.85	
AGROLAB-SL	(264)	-	-	-	8.67	Z RC
Deltares	(293)	0.040	0.060	0.040	0.84 **	X N
ERSAFVGSCA	(307)	0.296	0.117	0.067	8.60	Z Z
FVABW	(322)	1.400 *	2.400 *	0.100 <	10.80 *	X RC
GLAGC	(327)	0.200 <	0.200 <	0.200 <	8.92	J Z
VBBH	(859)	-	-	-	29.50 **	Z O
AGROADGAZA	(971)	4.930 **	2.000 <	2.000 <	8.83	
AGROLAB	(977)	0.330	2.000	1.000	10.00	X N
LABZIB	(1013)	-	-	-	8.70	Z Z
LEC-NKUA	(1074)	0.350	0.400	0.460	3.24 **	Z
RTCZ	(1114)	5.600 **	8.450 **	5.090	16.90 **	

	Statistical Results			
NDA mean	0.2955	0.4311	-	8.786
NDA st dev	0.4789	0.8343	-	1.005
N	10	10	7	29
Median	0.3950	0.6250	0.4600	8.710
MAD	0.3700	0.5750	0.4400	0.720

ISE 2012.1 - Soil characteristics

Sample	997	863	865	962	MIC
TOC=Total Org. C (g/kg)					
ALCONTROL (1)	19.0	36.0	40.0	18.0	N
OOSTERBEEK (4)	19.8	36.2	40.4	17.9	X RC
KUCHING (12)	22.3	38.4	43.8	18.5	
EXTAQS (52)	20.9	36.0	41.8	18.4	
LRSCONTROL (63)	22.9	38.3	42.5	-	X N
TCKI (64)	22.0	38.0	43.0	18.0	X N
ARCHIMEDES (73)	17.6	34.2	-	-	Z Z
GAL (95)	19.6	33.7	35.3	16.8	Z N
974BRET (99)	2.0 **	3.6 **	4.0 **	-	X N
CISCA (112)	19.2	33.7	37.9	15.9	Z Z
VICTORY (123)	20.4	37.0	40.4	21.0	
BCIMUZPOL (132)	21.3	37.0	39.5	24.4 **	
CPH340XYC (134)	22.9	33.0	38.5	17.4	X Z
HHAUFU (136)	18.4	33.0	36.0	16.5	\$ N
Deltares (293)	21.2	37.4	41.6	20.7	X N
FVABW (322)	21.4	33.6	42.4	16.6	X RC
GLAGC (327)	21.2	34.8	41.2	18.0	\$ Z
VBBH (859)	22.3	34.9	39.5	16.9	X N
CHEMHAL (877)	20.4	36.8	38.9	19.2	N
CHEZL (961)	22.4	39.2	35.5	19.3	X N
SAC-CAL (973)	21.4	41.2 *	39.2	22.8 *	
AGROLAB (977)	19.4	34.9	38.9	17.3	X N
NISLT (1017)	26.1 *	39.0	53.0 **	28.0 **	
KARI-NARL (1046)	20.2	33.1	33.0 *	17.8	J E
LEC-NKUA (1074)	20.1	33.5	45.8	16.3	O
RTCZ (1114)	18.0	31.9	37.3	14.8	

	Statistical Results			
NDA mean	20.70	35.60	39.82	17.69
NDA st dev	1.85	2.72	3.18	1.74
N	26	26	25	23
Median	20.65	35.45	39.51	18.00
MAD	1.30	1.88	2.21	1.23

ISE 2012.1 - Other determinations

Sample	997	863	865	962	MIC
B - Hot water (mg/kg)					
KUCHING (12)	0.600	1.05	0.420	1.77	
LRSCONTROL (63)	0.824	1.05	0.354	2.17	+ CB
GSISMA (214)	0.750	0.87	0.700	1.01	+ CB
AGROLAB-SL (264)	1.720	2.38	1.050	4.86	
SAC-CAL (973)	1.100	1.10	0.700	2.90	Z CB
===== Statistical Results (no NDA) =====					
N	5	5	5	5	
Median	0.8240	1.054	0.7000	2.174	
MAD	0.2240	0.046	0.2800	0.726	
=====					
CN - Total (mg/kg)					
ALCONTROL (1)	3.00	3.90	2.10	1.70	Z E
===== No Statistical Results =====					
delta 13C (‰ V-PDB)					
MONICA (24)	-29.0	-27.6	-25.8	-16.3	X RC
MERLEWOOD (222)	-28.6	-27.3	-25.5	-16.7	
FARE (1028)	-29.3	-28.2	-25.9	-17.1	H Z
===== Statistical Results (no NDA) =====					
N	3	3	3	3	
Median	-29.03	-27.61	-25.82	-16.72	
MAD	0.27	0.33	0.08	0.38	
=====					
delta 15N (‰ Air)					
MONICA (24)	4.52	6.40	1.11	6.16	X RC
MERLEWOOD (222)	4.36	6.30	1.23	6.15	
FARE (1028)	5.50	7.10	1.60	7.60	H Z
===== Statistical Results (no NDA) =====					
N	3	3	3	3	
Median	4.520	6.400	1.230	6.160	
MAD	0.160	0.100	0.120	0.010	
=====					
K - HCl (as K) (mg/kg)					
RLD (893)	39.6	89.9	38.8	-	Z AAA
===== No Statistical Results =====					
Mg - NaCl (as Mg) (mg/kg)					
RLD (893)	94.5	460	93.1	-	AAC
===== No Statistical Results =====					
Moisture-content (%)					
ATVC (7)	1.10	5.80	2.30	3.00	Z P
WAGENINGEN (14)	1.10	6.10	2.30	3.20	\$ P
LAF (37)	1.20	6.00	2.50	2.80	Z P
LRSCONTROL (63)	1.25	6.51	2.72	3.30	Z P
SAINTE-FOY (80)	1.10	5.90	2.40	3.20	Z P
XGCALAFIGA (135)	1.06	6.30	2.79	3.43	\$ P
GSISMA (214)	0.93	5.91	2.72	3.12	Z P
MERLEWOOD (222)	0.61 *	4.18 **	1.73 *	2.45	
PIEST-RIPP (256)	1.30	6.70	2.95	3.89 *	Z P
GLAGC (327)	1.18	6.48	2.97	3.29	Z P
RF-R&D (905)	1.02	5.32	2.38	2.89	\$ P
===== Summary Statistics =====					
NDA mean	1.068	5.922	2.485	3.142	
NDA st dev	0.159	0.521	0.300	0.353	
N	24	24	24	24	(cont.)

ISE 2012.1 - Other determinations

Sample		997	863	865	962	MIC
Moisture-content (%) (cont.)						
CHEZL	(961)	1.10	5.60	2.50	3.40	\$ P
SAC-CAL	(973)	0.80	4.80 *	2.30	2.70	Z P
AGROLAB	(977)	1.27	6.36	2.85	3.56	P
LDAR02	(984)	0.96	5.84	2.37	2.96	Z P
ABER	(1001)	1.02	5.95	2.55	3.30	\$ P
EASRETH	(1022)	1.15	6.15	2.84	3.47	+ -
SUMIFRU	(1026)	0.95	4.80 *	2.12	3.18	+ P
LASPEE	(1036)	0.91	5.49	2.35	2.77	
WIKASO	(1040)	0.99	5.33	2.11	2.98	S P
PA2010LAB	(1058)	1.10	6.00	2.50	3.30	\$ P
NAPLAB1	(1068)	0.79	4.61 *	2.35	2.90	Z P
LEC-NKUA	(1074)	1.00	5.70	2.20	2.60	P
RTCZ	(1114)	1.20	6.21	2.78	3.63	

	Statistical Results			
NDA mean	1.068	5.922	2.485	3.142
NDA st dev	0.159	0.521	0.300	0.353
N	24	24	24	24
Median	1.080	5.905	2.450	3.190
MAD	0.110	0.350	0.200	0.238

ISE 2012.1 - Fluoride (Swiss standard procedure)

Sample		997	863	865	962	MIC
F - Total (mg/kg)						
FRIDOLIN	(29)	70.6	558	723	537	D H
AGROCH	(75)	53.1	384	625	415	Z H
HIDU	(82)	130.0	532	854	580	D H
===== Statistical Results (no NDA) =====						
N		3	3	3	3	
Median		70.60	532.0	723.0	537.0	
MAD		17.55	26.0	98.5	43.0	
=====						

ISE 2012.1 - Digestion with conc. HNO₃ + conc. HCl + H₂O₂ (UNEP-UN/EC 91075A)

Sample		997	863	865	962	MIC
S (mg/kg)						
LABTECCOL	(1087)	291	20.1	9.30	53.7	Z E
		=====	No Statistical Results	=====		

ISE 2012.1 - Pot. CEC using 1M NH4-acetate at pH=7

Sample		997	863	865	962	MIC
Ca (cmol+/kg)						
LQA-ATP	(2)	9.9	25.9	6.01	42.6	
SABAH	(10)	13.0 *	83.1 **	33.42 **	8.9 *	K AAA
KUCHING	(12)	9.2	24.3	6.35	41.9	
FELDA	(13)	15.2 **	22.1	9.26 **	30.2	R AAA
LAF	(37)	10.5	27.2	6.53	40.4	R CB
SOILINST	(43)	11.1	30.3	7.32	24.2	R E
MSIRI	(48)	10.6	28.0	7.07	47.1	R AAA
EDAFONEI	(57)	8.8	26.4	5.42	26.9	R AAA
LRSCONTROL	(63)	10.3	27.5	5.99	25.4	R AAA
SIRI	(119)	9.5	23.0	6.50	23.0	Z O
UAK MARDI	(120)	10.8	26.6	7.10	33.2	
ELAEIS.S	(130)	10.6	30.6	6.75	33.6	
XGCALAFIGA	(135)	10.2	27.8	6.65	48.9	R CB
NSSL	(167)	11.5	30.6	7.20	55.6	+ AA
PLATINA222	(172)	10.8	26.8	6.20	33.4	R AAA
HILL	(180)	10.1	26.6	6.30	43.4	R CB
CSS	(186)	8.3	25.3	6.33	48.0	
MARELI	(204)	11.0	28.9	6.19	33.8	R AAA
AEC SAGRICS	(248)	10.3	26.5	5.72	39.1	
CIRADFLHOR	(249)	15.2 **	39.0 **	8.48 *	57.3	+ AAA
ARIANUM	(255)	11.3	-	-	-	AA AAA
AGROLAB-SL	(264)	8.2	18.7 *	5.24	32.3	R AAA
LUNUWILA	(270)	5.1 **	11.5 **	3.43 **	12.2 *	R AAA
IGEOLUNAM	(273)	9.7	21.3	6.21	39.5	R AAA
SPAL	(282)	10.5	30.3	7.18	43.3	R AAC
DAR	(296)	9.9	25.7	6.54	44.6	R AAB
ERSAFVGSCA	(307)	10.6	25.6	6.18	39.4	
SMART	(326)	9.9	26.2	6.05	50.8	
IRRI	(843)	11.5	29.5	7.43	78.7 **	R ABA
PASCAAnalab	(870)	11.0	27.9	5.86	30.2	R AAA
LABGLEB	(922)	10.7	-	-	-	
MCA	(970)	1.1 **	0.2 **	0.08 **	0.8 **	
LS-MRC	(978)	16.0 **	25.4	12.94 **	31.9	R AAA
EALG	(981)	8.6	26.7	5.47	32.1	+ E
LASPEE	(1036)	2.7 **	7.9 **	1.75 **	8.9 *	Z AAC
KARI-NARL	(1046)	12.6	31.2	6.23	49.2	R AAA
BIOLAB	(1061)	9.8	36.3 *	6.67	39.2	
INNOAGRAL	(1062)	3.2 **	14.8 **	3.05 **	26.6	R AAC
NALARAC	(1076)	12.0	26.9	2.08 **	44.3	R AAD
LABTECCOL	(1087)	6.8 **	19.9 *	4.87	24.8	

=====**Statistical Results**=====

NDA mean	10.39	26.88	6.363	36.85
NDA st dev	1.15	3.30	0.916	11.90
N	40	38	38	38
Median	10.41	26.60	6.265	36.43
MAD	0.80	2.34	0.670	8.03

CEC (cmol+/kg)

LQA-ATP	(2)	8.54	56.3 **	24.3	20.8	
SABAH	(10)	8.87	22.9	42.1 **	22.9	
KUCHING	(12)	18.10 **	69.0 **	39.7 **	37.6 **	
FELDA	(13)	4.83	19.7	16.7	14.8	R E
LAF	(37)	6.30	34.3	19.0	20.9	R O
EDAFONEI	(57)	8.26	35.3	19.9	21.0	+ AAA
SIRI	(119)	18.33 **	63.3 **	35.0 **	35.0 **	Z O
UAK MARDI	(120)	6.13	34.5	17.9	20.3	
ELAEIS.S	(130)	6.45	33.2	16.3	19.8	
NSSL	(167)	7.00	36.5	19.7	20.7	+ Z
PLATINA222	(172)	7.38	47.8	27.6 *	26.9 *	R AA

=====**Summary Statistics**=====

NDA mean	6.883	33.82	18.48	20.14
NDA st dev	1.263	7.32	3.87	3.07
N	29	30	29	30

(cont.)

ISE 2012.1 - Pot. CEC using 1M NH4-acetate at pH=7

Sample		997	863	865	962	MIC
CEC (cmol+/kg)	(cont.)					
HILL	(180)	12.90 **	38.6	20.4	21.3	R CB
NEMALAB	(187)	7.33	21.9	12.9	13.3 *	R O
AECsAGRICS	(248)	-	33.0	-	21.7	
CIRADFLHOR	(249)	5.30	43.1	21.2	23.8	
SPAL	(282)	7.80	34.7	22.1	22.5	R E
DAR	(296)	7.07	34.3	16.2	15.0	R O
Momotombo	(297)	4.51	48.4	19.7	18.7	R AAG
ERSAFVGSCA	(307)	7.18	41.4	22.3	23.1	
SMBPLNUS	(315)	7.40	16.5 *	13.0	7.8 **	R O
SMART	(326)	6.85	35.1	18.5	18.7	
IRRI	(843)	6.96	33.6	18.0	19.2	R E
PAScAnalab	(870)	7.28	29.8	17.0	18.7	R O
MCA	(970)	2.60 **	1.8 **	0.9 **	1.4 **	
LS-MRC	(978)	6.39	31.6	17.6	18.4	R O
LASPEE	(1036)	6.47	33.6	15.4	12.8 *	Z E
WIKASO	(1040)	6.20	30.9	16.0	18.6	R ABA
KARI-NARL	(1046)	5.10	21.4	13.6	13.2 *	R O
LUNLAB	(1052)	9.04	39.8	22.1	23.0	R O
NALARAC	(1076)	16.41 **	29.0	19.9	19.3	R O

	Statistical Results			
NDA mean	6.883	33.82	18.48	20.14
NDA st dev	1.263	7.32	3.87	3.07
N	29	30	29	30
Median	7.070	34.30	19.00	20.03
MAD	0.870	4.90	2.76	2.07

K (cmol+/kg)					
LQA-ATP	(2)	0.130	0.580	0.220	0.830
SABAH	(10)	0.370 **	0.660	0.650 **	0.510 *
KUCHING	(12)	0.090 *	0.500	0.180	0.690
FELDA	(13)	0.260 **	0.630	0.400 **	1.050
LAF	(37)	0.131	0.616	0.238	0.830
BELFAST	(39)	0.131	0.531	0.205	0.762
SOILINST	(43)	0.137	0.644	0.242	0.836
MSIRI	(48)	0.140	0.680	0.250	0.920
EDAFONEI	(57)	0.130	0.450 *	0.180	0.660
LRSCONTROL	(63)	0.114	0.448 *	0.169	0.667
SIRI	(119)	0.060 **	0.520	0.110 **	0.640
UAK MARDI	(120)	0.160	0.730 *	0.220	0.970
ELAEIS.S	(130)	0.120	0.620	0.220	0.780
XGCALAFIGA	(135)	0.130	0.600	0.230	0.780
NSSL	(167)	0.300 **	0.800 **	0.400 **	1.000
PLATINA222	(172)	0.150	0.590	0.230	0.810
HILL	(180)	0.140	0.590	0.220	0.790
CSS	(186)	0.127	0.571	0.212	0.760
MARELI	(204)	0.170 *	0.670	0.280	0.940
AECsAGRICS	(248)	-	0.600	-	0.860
CIRADFLHOR	(249)	0.220 **	0.610	0.310 *	0.940
ARIANUM	(255)	0.133	-	-	-
AGROLAB-SL	(264)	0.131	0.508	0.208	0.695
LUNUWILA	(270)	0.133	0.616	0.230	0.839
IGEOLUNAM	(273)	0.131	0.562	0.228	0.940
SPAL	(282)	0.250 **	0.660	0.250	0.860
DAR	(296)	0.300 **	0.820 **	0.390 **	1.080 *
ERSAFVGSCA	(307)	0.143	0.583	0.231	0.766
SMART	(326)	0.146	0.577	0.247	0.861
IRRI	(843)	0.130	0.610	0.250	0.870
PAScAnalab	(870)	0.168	0.606	0.228	0.855
LABGLEB	(922)	0.138	-	-	-

	Summary Statistics			
NDA mean	0.1327	0.5972	0.2205	0.8218
NDA st dev	0.0182	0.0549	0.0316	0.1277
N	40	41	40	41

(cont.)

ISE 2012.1 - Pot. CEC using 1M NH4-acetate at pH=7

Sample		997	863	865	962	MIC
K (cmol+/kg) (cont.)						
MCA	(970)	0.385 **	0.038 **	0.205	0.146 **	
AGROADGAZA	(971)	0.120	0.590	0.230	0.820	R CB
LS-MRC	(978)	0.170 *	0.600	0.300 *	0.810	R AAA
EALG	(981)	0.130 <	0.598	0.185	0.733	+ E
SMART-BGR	(1016)	0.130	0.640	0.190	0.970	R CB
LASPEE	(1036)	0.100	2.480 **	0.170	0.500 *	Z AAC
KARI-NARL	(1046)	1.480 **	1.600 **	1.580 **	0.950	R CA
BIOLAB	(1061)	0.130	0.600	0.220	0.800	
INNOAGRAL	(1062)	-	0.565	0.203	0.635	R AAC
NALARAC	(1076)	0.090 *	0.430 **	0.140 *	0.650	R AAC
LABTECCOL	(1087)	0.120	0.550	0.220	0.860	

	Statistical Results			
NDA mean	0.1327	0.5972	0.2205	0.8218
NDA st dev	0.0182	0.0549	0.0316	0.1277
N	40	41	40	41
Median	0.1330	0.6000	0.2280	0.8200
MAD	0.0130	0.0380	0.0220	0.0868

Mg (cmol+/kg)						
LQA-ATP	(2)	0.890	5.01	0.830	2.19	
SABAH	(10)	0.700	2.60 *	3.610 **	0.76 **	R AAA
KUCHING	(12)	0.730	3.63	0.710	1.67	
FELDA	(13)	0.920	3.08	0.800	1.85	R AAA
LAF	(37)	0.949	4.56	0.864	1.94	R CB
BELFAST	(39)	0.980	4.67	0.830	1.81	R AA
MSIRI	(48)	0.970	4.65	0.820	2.04	R AAA
EDAFONEI	(57)	0.810	3.84	0.650	1.59	+ AAA
LRSCONTROL	(63)	0.903	4.67	0.712	1.49	R AAA
SIRI	(119)	1.210 *	5.15	0.880	2.80 **	Z Z
UAK MARDI	(120)	0.880	4.04	0.790	1.78	
ELAEIS.S	(130)	0.840	4.66	0.820	1.84	
XGCALAFIGA	(135)	0.880	4.36	0.830	1.91	R CB
NSSL	(167)	0.900	4.60	0.800	2.10	+ AA
PLATINA222	(172)	0.990	4.50	0.860	1.92	R AAA
HILL	(180)	0.900	4.25	0.770	1.80	R CB
CSS	(186)	0.840	3.92	0.730	1.84	
MARELI	(204)	1.020	4.71	0.890	2.22	R AAA
AECSAGRICS	(248)	-	4.78	-	2.15	
CIRADFLHOR	(249)	1.040	3.80	0.880	2.64 *	+ AAC
ARIANUM	(255)	0.930	-	-	-	AA AAA
AGROLAB-SL	(264)	0.880	3.99	0.765	1.83	R AAA
LUNUWILA	(270)	0.482 **	2.29 **	0.460 **	0.91 **	R AAA
IGEOLUNAM	(273)	0.880	3.41	0.770	1.94	R AAA
SPAL	(282)	0.760	3.14	0.770	1.79	R AAC
DAR	(296)	0.920	3.48	0.830	1.81	R AAA
ERSAFVGSCA	(307)	0.942	4.27	0.830	1.89	
SMART	(326)	0.965	4.45	0.821	1.98	
IRRI	(843)	0.920	4.43	0.800	2.37	R ABA
PASCAanalab	(870)	0.915	4.60	0.809	1.85	R AAA
LABGLEB	(922)	0.992	-	-	-	
MCA	(970)	0.744	1.21 **	0.295 **	0.21 **	
AGROADGAZA	(971)	0.780	4.23	1.150 **	1.92	R CB
LS-MRC	(978)	0.670	3.99	0.620	1.62	R AAA
EALG	(981)	0.769	4.45	0.702	1.61	+ E
SMART-BGR	(1016)	0.660	2.65 *	0.520 *	1.19 *	R CB
LASPEE	(1036)	0.370 **	1.34 **	0.360 **	1.03 *	Z AAC
KARI-NARL	(1046)	1.140 *	4.31	1.010 *	2.09	R AAA
BIOLAB	(1061)	0.904	3.74	0.870	1.81	
INNOAGRAL	(1062)	0.180 **	2.30 **	0.459 **	1.07 *	R AAC

	Summary Statistics			
NDA mean	0.8848	4.243	0.7951	1.868
NDA st dev	0.1177	0.643	0.0976	0.296
N	41	40	39	40

(cont.)

ISE 2012.1 - Pot. CEC using 1M NH4-acetate at pH=7

Sample		997	863	865	962	MIC
Mg (cmol+/kg)	(cont.)					
NALARAC	(1076)	0.780	4.71	0.700	2.07	R AAC
LABTECCOL	(1087)	0.660	3.17	0.690	1.58	

	Statistical Results				
NDA mean	0.8848	4.243	0.7951	1.868	
NDA st dev	0.1177	0.643	0.0976	0.296	
N	41	40	39	40	
Median	0.8900	4.240	0.8000	1.840	
MAD	0.0800	0.432	0.0700	0.210	

Na (cmol+/kg)						
LQA-ATP	(2)	0.038 *	0.079 **	0.0220	0.039	
SABAH	(10)	0.100	0.230	0.3700 **	0.040	R CA
KUCHING	(12)	0.070	0.230	0.0200	0.120	
FELDA	(13)	0.080	0.140 *	0.0800	0.110	R CA
LAF	(37)	0.152	0.337	0.0650	0.183	R CB
SOILINST	(43)	0.103	0.340	0.0300	0.173	R E
EDAFONEI	(57)	0.120	0.310	0.0400	0.160	+ AAA
LRSCONTROL	(63)	0.087	0.278	0.0340	0.125	R CA
UAK MARDI	(120)	0.200 **	0.430	0.1100 *	0.250	
ELAEIS.S	(130)	0.090	0.300	0.0300	0.140	
XGCALAFIGA	(135)	0.090	0.300	0.0300	0.150	R CB
PLATINA222	(172)	0.100	0.330	0.0400	0.160	R AA
HILL	(180)	0.100	0.290	0.0500 <	0.150	R CB
MARELI	(204)	0.110	0.330	0.0500	0.210	R AAA
AECSAGRICS	(248)	-	0.310	-	0.260	
AGROLAB-SL	(264)	0.204 **	0.496 *	0.1540 **	0.440 **	R AAA
LUNUWILA	(270)	0.125	0.410	0.0500	0.234	R AAA
IGEOLUNAM	(273)	0.265 **	0.505 *	0.2020 **	0.391 **	R CA
SPAL	(282)	0.160	0.380	0.0700	0.250	R CA
DAR	(296)	0.150	0.370	0.1000 *	0.250	R CA
ERSAFVGSCA	(307)	0.102	0.299	0.0417	0.167	
SMART	(326)	0.109	0.248	0.0490	0.166	
IRRI	(843)	0.090	0.270	0.0500	0.230	R AAA
PASCAanalab	(870)	0.129	0.347	0.0480	0.171	R CA
LABGLEB	(922)	0.107	-	-	-	
MCA	(970)	0.161	0.129 *	0.1780 **	0.130	
LS-MRC	(978)	0.090	0.270	0.0200	0.170	R AAA
EALG	(981)	0.100 <	0.304	0.1000 <	0.150 <	+ E
SMART-BGR	(1016)	0.080	0.230	0.0300	0.150	R CB
LASPEE	(1036)	0.070	0.180	0.0100	0.120	Z AAC
KARI-NARL	(1046)	0.630 **	0.970 **	0.6800 **	1.320 **	R CA
BIOLAB	(1061)	0.303 **	0.540 **	0.2600 **	0.390 **	
INNOAGRAL	(1062)	-	0.056 **	-	-	R AAC
NALARAC	(1076)	0.160	0.310	0.0400	0.170	R AAC
LABTECCOL	(1087)	0.120	0.320	0.3400 **	0.260	

	Statistical Results				
NDA mean	0.1051	0.3032	0.04144	0.1719	
NDA st dev	0.0313	0.0737	0.02718	0.0678	
N	32	34	30	32	
Median	0.1078	0.3068	0.04950	0.1700	
MAD	0.0210	0.0495	0.02000	0.0475	

ISE 2012.1 - Pot. CEC using 1M or 0.1M BaCl2-TEA at pH=8.1 (ISO 13536 OR BZE)

Sample		997	863	865	962	MIC
Al (cmol+/kg)						
LABAMB	(878)	0.770	0.0600	1.84	-	S CB
		===== No Statistical Results =====				
Ca (cmol+/kg)						
RISWC	(174)	9.84	-	6.33	23.6	S AAB
KLAL	(233)	9.88	27.1	5.92	41.0	
FFEEBW	(284)	9.92	28.4	7.16	23.2	
GLAGC	(327)	-	-	-	25.1	S CB
LABAMB	(878)	8.02	12.1	5.78	21.1	S CB
		===== Statistical Results (no NDA) =====				
N		4	3	4	5	
Median		9.860	27.12	6.125	23.55	
MAD		0.039	1.24	0.275	1.55	
CEC (cmol+/kg)						
RISWC	(174)	10.3	-	22.9	23.8	S CA
GSISMA	(214)	9.4	41.4	24.9	25.4	S CB
FFEEBW	(284)	11.4	40.9	26.1	26.4	
GLAGC	(327)	-	-	-	19.5	S CB
LABAMB	(878)	14.0	53.0	32.1	32.6	S O
CRC	(884)	10.0	35.0	20.0	21.0	
CAC	(885)	9.9	31.1	20.6	17.8	Z O
		===== Statistical Results (no NDA) =====				
N		6	5	6	7	
Median		10.15	40.87	23.90	23.77	
MAD		0.50	5.87	2.73	2.77	
K (cmol+/kg)						
RISWC	(174)	0.140	-	0.240	1.050	S AAA
KLAL	(233)	0.160	0.560	0.240	0.780	
FFEEBW	(284)	0.130	0.795	0.233	1.159	
GLAGC	(327)	-	-	-	0.890	S CB
LABAMB	(878)	0.220	0.590	0.240	0.860	S CB
		===== Statistical Results (no NDA) =====				
N		4	3	4	5	
Median		0.1500	0.5900	0.2400	0.8900	
MAD		0.0152	0.0300	-	0.1100	
Mg (cmol+/kg)						
RISWC	(174)	0.830	-	1.120	2.24	S AAA
KLAL	(233)	1.280	4.75	0.860	2.17	
FFEEBW	(284)	0.992	4.35	0.790	1.95	
GLAGC	(327)	-	-	-	1.90	S CB
LABAMB	(878)	0.910	3.77	0.610	1.62	S CB
		===== Statistical Results (no NDA) =====				
N		4	3	4	5	
Median		0.9510	4.350	0.8249	1.950	
MAD		0.0810	0.400	0.1250	0.220	
Na (cmol+/kg)						
KLAL	(233)	0.460	0.610	0.140	0.340	
FFEEBW	(284)	0.077	0.289	0.022	0.182	
		===== Summary Statistics (No NDA) =====				
Median		0.2400	0.4500	0.1400	0.2500	
MAD		0.1626	0.1600	0.0200	0.0590	
N		3	3	3	4	(cont.)

ISE 2012.1 - Pot. CEC using 1M or 0.1M BaCl₂-TEA at pH=8.1 (ISO 13536 OR BZE)

Sample	997	863	865	962	MIC
Na (cmol+/kg) (cont.)					
GLAGC (327)	-	-	-	0.200	S CB
LABAMB (878)	0.240	0.450	0.160	0.300	O CB
	===== Statistical Results (no NDA) =====				
N	3	3	3	4	
Median	0.2400	0.4500	0.1400	0.2500	
MAD	0.1626	0.1600	0.0200	0.0590	
	=====				

ISE 2012.1 - Pot. CEC using 1M NH4Cl (BZE)

Sample		997	863	865	962	MIC
Al (cmol+/kg)						
MONICA	(24)	0.0740 <	0.0740 <	1.42	0.07400 <	+ CB
SAINTE-FOY	(80)	0.0900 <	0.0900 <	1.64	0.09000 <	Z CB
NFVGEOE	(321)	-	0.0300	2.87	-	+ CB
FVABW	(322)	-	-	2.57	-	+ CB
GLAGC	(327)	0.0800 <	0.1300	2.71	-	Z CB
SPASL	(855)	0.0180	0.0130	1.48	0.00500	Z CB
LABTECCOL	(1087)	-	-	0.71	-	Z O
===== Statistical Results (no NDA) =====						
N		1	3	7	1	
Median		0.01800	0.03000	1.640	0.005000	
MAD		-	0.01700	0.930	-	
=====						
Ca (cmol+/kg)						
MONICA	(24)	9.4	23.8	6.38	25.0	+ CB
SAINTE-FOY	(80)	10.9	28.6	7.19	28.8	Z CB
NFVGEOE	(321)	-	28.8	7.37	-	+ CB
FVABW	(322)	-	-	6.55	-	+ CB
GLAGC	(327)	11.2	29.1	7.30	-	Z CB
SPASL	(855)	9.9	31.5	8.20	26.2	Z CB
CDAgrogand	(1085)	10.5	24.8	6.66	32.4	
===== Statistical Results (no NDA) =====						
N		5	6	7	4	
Median		10.45	28.70	7.190	27.51	
MAD		0.54	1.61	0.531	1.91	
=====						
CEC (cmol+/kg)						
NFVGEOE	(321)	-	34.2	12.6	-	+ Z
FVABW	(322)	-	-	11.4	-	+ Z
GLAGC	(327)	12.60	34.9	12.2	-	Z CB
SPASL	(855)	6.35	35.7	19.6	25.8	Z CB
===== Statistical Results (no NDA) =====						
N		2	3	4	1	
Median		9.473	34.90	12.39	25.76	
MAD		3.128	0.73	0.62	-	
=====						
Fe (cmol+/kg)						
MONICA	(24)	0.0430 <	0.04300	0.210	0.0430 <	+ CB
SAINTE-FOY	(80)	0.0230	0.00200	0.337	0.0010 <	Z CB
NFVGEOE	(321)	-	0.00100	0.377	-	+ CB
FVABW	(322)	-	-	0.350	-	+ CB
GLAGC	(327)	0.0300 <	0.03000 <	0.230	-	Z CB
SPASL	(855)	0.0070	0.00100	0.112	-	Z CB
===== Statistical Results (no NDA) =====						
N		2	4	6	-	
Median		0.01500	0.001500	0.2835	-	
MAD		0.00800	0.000500	0.0700	-	
=====						
H (cmol+/kg)						
NFVGEOE	(321)	-	-	0.169	-	+ H
FVABW	(322)	-	-	0.210	-	+ H
GLAGC	(327)	0.0100 <	0.0100 <	0.260	-	Z H
===== Statistical Results (no NDA) =====						
N		-	-	3	-	
Median		-	-	0.2100	-	
MAD		-	-	0.0410	-	
=====						

ISE 2012.1 - Pot. CEC using 1M NH4Cl (BZE)

Sample		997	863	865	962	MIC
K (cmol+/kg)						
MONICA	(24)	0.818 <	0.818 <	0.818 <	0.818 <	+ CB
SAINTE-FOY	(80)	0.150	0.690	0.250	0.890	Z CB
NFVGOE	(321)	-	0.592	0.233	-	+ CB
FVABW	(322)	-	-	0.250	-	+ CB
GLAGC	(327)	0.120 <	0.570	0.210	-	Z CB
SPASL	(855)	0.143	0.685	0.289	1.114	Z CB
CDAgrogand	(1085)	0.106	0.407	0.161	0.619	

===== Statistical Results (no NDA) =====						
N		3	5	6	3	
Median		0.1430	0.5920	0.2415	0.8900	
MAD		0.0070	0.0930	0.0200	0.2240	

Mg (cmol+/kg)						
MONICA	(24)	0.880	3.96	0.780	1.58	+ CB
SAINTE-FOY	(80)	1.010	4.68	0.900	1.80	Z CB
NFVGOE	(321)	-	4.30	0.861	-	+ CB
FVABW	(322)	-	-	0.810	-	+ CB
GLAGC	(327)	0.940	4.59	0.830	-	Z CB
SPASL	(855)	0.995	4.94	1.065	2.12	Z CB
CDAgrogand	(1085)	0.978	3.32	0.868	1.67	

===== Statistical Results (no NDA) =====						
N		5	6	7	4	
Median		0.9780	4.446	0.8610	1.734	
MAD		0.0320	0.360	0.0390	0.110	

Mn (cmol+/kg)						
MONICA	(24)	0.090	0.130	0.520	0.0300	+ CB
SAINTE-FOY	(80)	0.140	0.172	0.633	0.0380	Z CB
NFVGOE	(321)	-	0.188	0.663	-	+ CB
FVABW	(322)	-	-	0.590	-	+ CB
GLAGC	(327)	0.150	0.190	0.620	-	Z CB
SPASL	(855)	0.094	0.158	0.729	0.0290	Z CB

===== Statistical Results (no NDA) =====						
N		4	5	6	3	
Median		0.1170	0.1720	0.6265	0.03000	
MAD		0.0250	0.0160	0.0365	0.00100	

Na (cmol+/kg)						
MONICA	(24)	0.226 <	0.280	0.2260 <	0.226 <	+ CB
NFVGOE	(321)	-	0.275	0.0320	-	+ CB
FVABW	(322)	-	-	0.0300	-	+ CB
GLAGC	(327)	0.100	0.320	0.0800 <	-	Z CB
SPASL	(855)	0.128	2.752	0.7190	0.216	Z CB
CDAgrogand	(1085)	0.414	0.322	0.0580	0.156	

===== Statistical Results (no NDA) =====						
N		3	5	4	2	
Median		0.1280	0.3200	0.04500	0.1860	
MAD		0.0280	0.0400	0.01400	0.0300	

ISE 2012.1 - Act. CEC using 0.1M BaCl2 (UNEP-UN/EC 91065A)

Sample		997	863	865	962	MIC
Al (cmol+/kg)						
FORTEST	(212)	0.0100	0.0100	1.35	0.0010	+ CB
NFVGOE	(321)	0.0070	0.0160	1.48	-	Q CB
FVABW	(322)	0.0100 <	0.0100	1.24	0.0100 <	+ CB
SEEDLING	(346)	0.0600	0.0740	0.81	0.0330	+ AAB
===== Statistical Results (no NDA) =====						
N		3	4	4	2	
Median		0.01000	0.01300	1.295	0.01700	
MAD		0.00300	0.00300	0.122	0.01600	
=====						
Ca (cmol+/kg)						
POULAIN	(51)	9.35	21.4	5.28	20.0	Z CB
FORTEST	(212)	10.40	30.2	7.90	26.0	+ CB
NFVGOE	(321)	9.15	26.4	6.76	23.6	Q CB
FVABW	(322)	8.16	24.5	6.25	21.7	+ CB
SEEDLING	(346)	10.31	26.9	7.36	23.9	+ AAA
===== Statistical Results (no NDA) =====						
N		5	5	5	5	
Median		9.350	26.37	6.756	23.55	
MAD		0.958	1.87	0.605	1.88	
=====						
CEC (cmol+/kg)						
POULAIN	(51)	8.1	30.8	10.3	24.8	Z CB
FORTEST	(212)	11.8	35.8	11.1	28.6	+ CB
NFVGOE	(321)	10.4	31.3	10.1	26.0	Q Z
FVABW	(322)	9.3	29.2	9.2	23.9	+ Z
SEEDLING	(346)	11.4	31.5	9.5	25.7	+ Z
===== Statistical Results (no NDA) =====						
N		5	5	5	5	
Median		10.37	31.31	10.07	25.66	
MAD		1.07	0.51	0.53	0.82	
=====						
Fe (cmol+/kg)						
FORTEST	(212)	0.0200	0.00100	0.210	-	+ CB
NFVGOE	(321)	0.0300	0.00200	0.243	-	Q CB
FVABW	(322)	0.0300	0.01000 <	0.210	0.0100 <	+ CB
SEEDLING	(346)	0.0280	0.01600	0.108	0.0110	+ AAA
===== Statistical Results (no NDA) =====						
N		4	3	4	1	
Median		0.02900	0.002000	0.2100	0.01100	
MAD		0.00100	0.001000	0.0165	-	
=====						
H (cmol+/kg)						
NFVGOE	(321)	0.00700	0.0190	0.124	-	Q H
FVABW	(322)	0.01000 <	0.0100	0.120	0.0100 <	+ H
===== Statistical Results (no NDA) =====						
N		1	2	2	-	
Median		0.007000	0.01450	0.1220	-	
MAD		-	0.00450	0.0020	-	
=====						

ISE 2012.1 - Act. CEC using 0.1M BaCl2 (UNEP-UN/EC 91065A)

Sample		997	863	865	962	MIC
K (cmol+/kg)						
POULAIN	(51)	0.080	0.320	0.090	0.530	Z CB
FORTEST	(212)	0.140	0.490	0.220	0.700	+ CB
NFVGoe	(321)	0.105	0.412	0.179	0.648	Q CB
FVABW	(322)	0.090	0.380	0.160	0.570	+ CB
SEEDLING	(346)	0.102	0.358	0.173	0.601	+ CA
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		0.1020	0.3800	0.1730	0.6010	
MAD		0.0120	0.0320	0.0130	0.0470	
=====						
Mg (cmol+/kg)						
POULAIN	(51)	0.730	3.59	0.530	1.30	Z CB
FORTEST	(212)	1.030	4.64	0.840	1.75	+ CB
NFVGoe	(321)	0.885	4.07	0.757	1.62	Q CB
FVABW	(322)	0.840	3.87	0.710	1.50	+ CB
SEEDLING	(346)	0.869	4.08	0.719	1.60	+ AAA
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		0.8690	4.070	0.7190	1.596	
MAD		0.0290	0.200	0.0380	0.096	
=====						
Mn (cmol+/kg)						
FORTEST	(212)	0.120	0.160	0.540	0.0200	+ CB
NFVGoe	(321)	0.106	0.143	0.497	0.0180	Q CB
FVABW	(322)	0.090	0.120	0.450	0.0100	+ CB
SEEDLING	(346)	0.094	0.128	0.513	0.0150	+ AAA
		===== Statistical Results (no NDA) =====				
N		4	4	4	4	
Median		0.1000	0.1355	0.5050	0.01650	
MAD		0.0080	0.0115	0.0215	0.00250	
=====						
Na (cmol+/kg)						
FORTEST	(212)	0.1100	0.350	0.0400	0.140	+ CB
NFVGoe	(321)	0.0840	0.277	0.0230	0.118	Q CB
FVABW	(322)	0.0700	0.260	0.0200	0.100	+ CB
SEEDLING	(346)	0.0770	0.266	0.0250	0.103	+ CA
		===== Statistical Results (no NDA) =====				
N		4	4	4	4	
Median		0.08050	0.2715	0.02400	0.1105	
MAD		0.00700	0.0085	0.00250	0.0090	
=====						

ISE 2012.1 - Act. CEC using cobaltihexamine (AFNOR NFX 31 130)

Sample		997	863	865	962	MIC
Al (cmol+/kg)						
LAS	(42)	0.0370	0.0680	1.43	0.0340	+ CB
		===== No Statistical Results =====				
Ca (cmol+/kg)						
OOSTERBEEK	(4)	10.4	30.6	6.76	27.1	+ CB
LAS	(42)	10.6	29.3	6.57	25.1	+ CB
RIOJALAB	(45)	10.7	27.8	6.83	24.6	+ CB
974BRET	(99)	9.6	29.5	5.71	25.0	+ AAA
LDAR02	(984)	10.7	27.8	6.19	24.0	+ AA
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		10.60	29.30	6.570	25.00	
MAD		0.06	1.27	0.264	0.38	
=====						
CEC (cmol+/kg)						
OOSTERBEEK	(4)	6.39	37.4	11.65	26.6	+ CB
LAS	(42)	6.61	34.6	9.75	24.9	+ E
RIOJALAB	(45)	6.99	32.9	10.61	24.4	+ CB
974BRET	(99)	5.68	33.6	8.01	23.6	+ AAA
LDAR02	(984)	8.45	34.9	9.80	24.8	+ E
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		6.610	34.60	9.800	24.75	
MAD		0.383	1.00	0.814	0.37	
=====						
H (cmol+/kg)						
LAS	(42)	0.0600	0.105	0.220	0.0500 <	+ O
		===== No Statistical Results =====				
K (cmol+/kg)						
OOSTERBEEK	(4)	0.113	0.635	0.217	0.866	+ CB
LAS	(42)	0.121	0.569	0.215	0.807	+ CB
RIOJALAB	(45)	0.112	0.513	0.207	0.749	+ CB
974BRET	(99)	0.170	0.620	0.170	0.780	+ AAA
LDAR02	(984)	0.081	0.558	0.207	0.753	+ AA
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		0.1130	0.5690	0.2070	0.7800	
MAD		0.0080	0.0510	0.0080	0.0270	
=====						
Mg (cmol+/kg)						
OOSTERBEEK	(4)	0.895	4.71	0.746	1.75	+ CB
LAS	(42)	0.928	4.73	0.787	1.78	+ CB
RIOJALAB	(45)	0.957	4.40	0.784	1.77	+ CB
974BRET	(99)	0.850	4.55	0.730	1.67	+ AAC
LDAR02	(984)	0.871	4.56	0.708	1.65	+ AA
		===== Statistical Results (no NDA) =====				
N		5	5	5	5	
Median		0.8950	4.557	0.7460	1.751	
MAD		0.0330	0.151	0.0380	0.029	
=====						
Mn (cmol+/kg)						
LAS	(42)	0.0760	0.148	0.480	0.0100	+ CB
		===== No Statistical Results =====				

ISE 2012.1 - Act. CEC using cobaltihexamine (AFNOR NFX 31 130)

Sample		997	863	865	962	MIC
Na (cmol+/kg)						
OOSTERBEEK	(4)	0.0870	0.311	0.0310	0.127	+ CB
LAS	(42)	0.0920	0.308	0.0260	0.136	+ CA
RIOJALAB	(45)	0.0830	0.276	0.0340	0.132	+ CB
974BRET	(99)	0.0900	0.320	0.0300	0.130	+ AAA
LDAR02	(984)	27.2940	0.292	0.0240	0.120	+ AA

	Statistical Results (no NDA)			
	5	5	5	5
N				
Median	0.09000	0.3080	0.03000	0.1300
MAD	0.00300	0.0120	0.00400	0.0030

ISE 2012.1 - Mehlich-3

Sample		997	863	865	962	MIC
Al (mg/kg)						
RIOJALAB	(45)	611	995	1163	336	+ CB
SAINTE-FOY	(80)	551	1002	1195	334	Z CB
CORBANA	(110)	474	979	1238	18 **	
HILL	(180)	422	923	1186	82 **	+ CB
QLDNR&M	(210)	519	946	1060 **	332	Z CB
FORTEST	(212)	599	1065	1196	368	+ CB
LSF	(895)	591	998	1195	138 *	
RHODE	(960)	703	1210 **	1400 **	409	+ CB

	Statistical Results			
NDA mean	561.8	984.6	1193	339.5
NDA st dev	73.7	47.8	28	84.6
N	8	8	8	8
Median	571.2	996.3	1195	332.9
MAD	46.0	33.8	21	55.4

As (mg/kg)						
RIOJALAB	(45)	1.05	0.951	0.582	1.71	+ CB

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

B (mg/kg)						
RIOJALAB	(45)	1.642 *	1.402	1.238 *	4.33	+ CB
SAINTE-FOY	(80)	1.000 <	1.000 <	1.000 <	4.13	Z CB
HILL	(180)	0.710	0.770	0.650	3.43	+ CB
QLDNR&M	(210)	0.450	0.420	0.120	3.81	Z CB
FORTEST	(212)	0.610	0.610	0.180	3.92	+ CB
SMBPLNUS	(315)	0.150	-	-	2.76	+ CB
CHRON	(424)	0.460	0.410	0.050	2.89	+ CB
LSF	(895)	1.980 **	1.740 *	1.590 **	4.40	
RHODE	(960)	0.700	0.660	0.130	4.01	+ CB
SUMIFRU	(1026)	0.967	0.930	0.487	3.42	

	Statistical Results			
NDA mean	0.6104	0.7059	0.2886	3.782
NDA st dev	0.3565	0.3764	0.3684	0.633
N	9	8	8	10
Median	0.7000	0.7150	0.3335	3.865
MAD	0.2500	0.2550	0.2485	0.440

Ca (mg/kg)						
RIOJALAB	(45)	2341	5297	1352	8002	+ CB
SAINTE-FOY	(80)	2342	5863 *	1291	7665	Z CB
CORBANA	(110)	2031	4748	1173	7046	Z CB
ETMKK	(166)	2154	5004	1219	7506	Z CB
RISWC	(174)	1988	5317	1058	7415	+ AAB
DOLE	(177)	2116	5234	1256	6960	+ CB
HILL	(180)	1845	4632	1112	6030	+ CB
QLDNR&M	(210)	2130	4970	1250	6480	Z CB
FORTEST	(212)	2379	5322	1333	6914	+ CB
ABMCE	(230)	2350	5390	1550 *	7960	Z AAA
PIEST-RIPP	(256)	2081	5006	1228	6685	+ AAA
SMBPLNUS	(315)	2330	5950 *	1370	8140	+ CB
CHRON	(424)	2793 *	4412 *	1034	6740	
LSF	(895)	2275	5068	1322	6603	
RHODE	(960)	2520	5348	1453	8207	+ CB
SUMIFRU	(1026)	2023	4552	1225	6433	+ CB
WIKASO	(1040)	2122	5227	1461	6622	+ ABA

	Summary Statistics			
NDA mean	2198	5134	1273	7080
NDA st dev	233	342	128	727
N	17	17	17	17

(cont.)

ISE 2012.1 - Mehlich-3

Sample		997	863	865	962	MIC
Ca (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		2198	5134	1273	7080	
NDA st dev		233	342	128	727	
N		17	17	17	17	
Median		2154	5227	1256	6960	
MAD		166	221	83	480	
=====						
Cd (mg/kg)						
RIOJALAB	(45)	0.259	0.317	0.0550	0.153	+ CB
		===== No Statistical Results =====				
Cr (mg/kg)						
RIOJALAB	(45)	1.36	0.262	0.451	0.197	+ CB
		===== No Statistical Results =====				
Cu (mg/kg)						
RIOJALAB	(45)	0.64	4.38	0.032	2.79	+ CB
SAINTE-FOY	(80)	1.15	5.28	1.000 <	3.08	Z CB
CORBANA	(110)	1.30	5.61	0.460	3.23	Z CB
ETMKK	(166)	0.70	2.92	0.140	3.07	Z CB
DOLE	(177)	1.15	3.88	0.231	2.94	+ CB
HILL	(180)	1.14	5.76	0.520	2.46 *	+ CB
QLDNR&M	(210)	1.49	6.06	0.290	3.25	Z CB
FORTEST	(212)	0.98	4.35	0.320	3.22	+ CB
ARIANUM	(255)	-	4.99	-	-	+ AAG
SMBPLNUS	(315)	0.91	4.92	0.040	3.39	+ CB
CHRON	(424)	1.45	5.18	0.530	2.78	
PASCAAnalab	(870)	1.25	2.83	0.228	2.72	Z AAA
LSF	(895)	1.00	5.00	0.290	3.14	
RHODE	(960)	0.67	3.49	0.140	3.28	+ CB
NISLT	(1017)	12.73 **	8.18 **	1.820 **	6.82 **	
SUMIFRU	(1026)	0.86	3.42	0.272	2.90	+ CB
		===== Statistical Results =====				
NDA mean		1.051	4.663	0.2608	3.055	
NDA st dev		0.327	1.112	0.1963	0.267	
N		15	16	14	15	
Median		1.140	4.955	0.2810	3.080	
MAD		0.230	0.730	0.1410	0.180	
=====						
Fe (mg/kg)						
RIOJALAB	(45)	497	421 **	531	376	+ CB
SAINTE-FOY	(80)	486	447 *	552	390	Z CB
CORBANA	(110)	347 *	499	728	416	Z CB
DOLE	(177)	476	488	628	420	+ CB
HILL	(180)	312 **	491	783	361	+ CB
QLDNR&M	(210)	517	480	597	428	Z CB
FORTEST	(212)	559	492	620	455	+ CB
ARIANUM	(255)	-	445 *	-	-	+ AAG
SMBPLNUS	(315)	507	426 **	534	410	+ CB
CHRON	(424)	511	472	585	373	
PASCAAnalab	(870)	469	488	704	421	Z AAA
LSF	(895)	570	490	647	466	
RHODE	(960)	597	511	664	491	+ CB
NISLT	(1017)	600	671 **	757	600 **	
SUMIFRU	(1026)	612	489	612	472	+ CB
		===== Summary Statistics =====				
NDA mean		525.8	487.7	629.6	421.2	
NDA st dev		66.0	15.9	83.7	54.0	
N		14	15	14	14	(cont.)

ISE 2012.1 - Mehlich-3

Sample		997	863	865	962	MIC
Fe (mg/kg) (cont.)						
		===== Statistical Results =====				
NDA mean		525.8	487.7	629.6	421.2	
NDA st dev		66.0	15.9	83.7	54.0	
N		14	15	14	14	
Median		509.0	488.0	624.0	420.3	
MAD		44.7	11.0	56.0	39.1	
=====						
K (mg/kg)						
RIOJALAB	(45)	54.3	211	86.9	307	+ CB
SAINTE-FOY	(80)	61.0	225	89.8	327	Z CB
CORBANA	(110)	49.4	202	80.4	293	Z CB
ETMKK	(166)	58.0	214	87.0	311	Z CB
RISWC	(174)	50.0	191	75.0	288	+ AAA
DOLE	(177)	53.8	224	83.6	302	+ CB
HILL	(180)	46.7	190	76.1	275	+ CB
QLDNR&M	(210)	53.0	209	83.0	308	Z CB
FORTEST	(212)	57.0	228	87.4	328	+ CB
ABMCE	(230)	56.5	216	93.0	333	Z AAA
PIEST-RIPP	(256)	63.7	226	93.9	325	+ CA
SMBPLNUS	(315)	56.8	212	92.4	318	+ CB
CHRON	(424)	74.0 **	199	60.0 **	293	
LSF	(895)	52.7	216	64.4 *	320	
RHODE	(960)	56.5	221	89.2	331	+ CB
SUMIFRU	(1026)	64.2	203	89.2	320	+ CB
WIKASO	(1040)	55.6	209	81.0	294	+ ABA
=====						
		===== Statistical Results =====				
NDA mean		55.46	212.6	85.93	311.5	
NDA st dev		5.09	13.0	7.83	21.5	
N		17	17	17	17	
Median		56.50	212.0	86.89	311.0	
MAD		3.50	9.0	5.51	15.5	
=====						
Mg (mg/kg)						
RIOJALAB	(45)	129	536	109	267	+ CB
SAINTE-FOY	(80)	114	514	104	238	Z CB
CORBANA	(110)	110	496	98	242	Z CB
ETMKK	(166)	115	495	99	241	Z CB
RISWC	(174)	114	499	96	262	+ AAA
DOLE	(177)	116	526	100	255	+ CB
HILL	(180)	98 *	447 *	91	204 *	+ CB
QLDNR&M	(210)	115	508	100	253	Z CB
FORTEST	(212)	127	537	104	260	+ CB
ABMCE	(230)	129	539	107	253	Z AAA
PIEST-RIPP	(256)	118	520	108	261	+ AAA
SMBPLNUS	(315)	126	506	111	265	+ CB
CHRON	(424)	168 **	469	94	235	
LSF	(895)	125	515	109	259	
RHODE	(960)	139	552	127 **	295 *	+ CB
SUMIFRU	(1026)	118	470	105	243	+ AAC
WIKASO	(1040)	135	552	126 **	298 *	+ ABA
=====						
		===== Statistical Results =====				
NDA mean		120.6	514.7	102.9	253.8	
NDA st dev		11.3	28.0	7.3	17.0	
N		17	17	17	17	
Median		118.0	513.6	104.3	255.0	
MAD		8.0	18.6	4.9	12.0	
=====						

ISE 2012.1 - Mehlich-3

Sample		997	863	865	962	MIC
Mn (mg/kg)						
RIOJALAB	(45)	79.5	45.5	145	139	+ CB
SAINTE-FOY	(80)	67.4	46.1	144	152	Z CB
CORBANA	(110)	59.1	45.3	136	166	Z CB
ETMKK	(166)	110.0 *	53.0 *	150	187 **	Z CB
DOLE	(177)	74.6	42.9	142	155	+ CB
HILL	(180)	43.9 *	41.1	124	147	+ CB
QLDNR&M	(210)	63.0	43.0	133	151	Z CB
FORTEST	(212)	73.9	47.2	140	156	+ CB
ARIANUM	(255)	-	48.4	-	-	+ AAG
SMBPLNUS	(315)	70.5	42.8	140	152	+ CB
CHRON	(424)	89.0	43.0	112 **	137	
PASCAAnalab	(870)	75.0	43.3	139	153	Z AAA
LSF	(895)	76.0	45.5	155	159	
RHODE	(960)	90.0	50.3	161	167	+ CB
SUMIFRU	(1026)	92.7	45.5	152	166	+ AAC

	Statistical Results			
NDA mean	75.34	45.00	142.9	154.6
NDA st dev	14.09	3.44	10.0	9.1
N	14	15	14	14
Median	74.79	45.50	141.2	154.2
MAD	9.59	2.50	6.7	6.0

Na (mg/kg)						
RIOJALAB	(45)	25.5	63.4	11.0	33.4	+ CB
SAINTE-FOY	(80)	22.2	67.7	6.5	32.4	Z CB
HILL	(180)	19.0	57.0	4.0	28.0	+ CB
QLDNR&M	(210)	25.0	86.0	14.0	38.0	Z CB
FORTEST	(212)	23.9	74.5	7.1	35.6	+ CB
SMBPLNUS	(315)	35.7	77.6	18.8	46.9	+ CB
CHRON	(424)	36.0	71.0	14.0	37.0	
RHODE	(960)	47.8 *	128.9 **	35.9 **	87.9 **	+ CB
SUMIFRU	(1026)	28.7	70.4	12.4	45.8	+ AAA
WIKASO	(1040)	8.3 *	53.2	4.2	24.7	+ ABA

	Statistical Results			
NDA mean	26.04	69.16	10.16	35.45
NDA st dev	7.49	10.41	6.76	8.55
N	10	10	10	10
Median	25.24	70.70	11.72	36.30
MAD	4.85	7.08	4.93	6.10

P (mg/kg)						
RIOJALAB	(45)	167	55.2	11.2	67.4	+ CB
SAINTE-FOY	(80)	161	59.5	12.3	69.9	Z CB
CORBANA	(110)	123 *	57.9	13.7	54.3 *	
ETMKK	(166)	170	49.0	11.0	58.0	Z CB
NSSL	(167)	135	48.8	6.5	57.6	Z E
RISWC	(174)	155	48.1	7.5	63.3	+ E
DOLE	(177)	152	60.3	9.0	65.6	+ CB
HILL	(180)	118 **	62.7	19.9 *	62.9	+ CB
QLDNR&M	(210)	165	63.0	14.0	74.0	Z CB
FORTEST	(212)	174	61.4	11.5	68.9	+ CB
ABMCE	(230)	152	51.6	7.5	63.0	Z E
ARIANUM	(255)	158	-	-	-	+ E
PIEST-RIPP	(256)	150	50.8	9.9	62.9	+ E
SMBPLNUS	(315)	169	56.5	11.6	67.9	+ CB
CHRON	(424)	193 *	59.0	13.0	58.0	
LSF	(895)	168	54.5	14.0	67.5	

	Summary Statistics			
NDA mean	160.0	57.40	11.40	64.90
NDA st dev	13.7	5.13	3.33	4.80
N	20	19	19	19

(cont.)

ISE 2012.1 - Mehlich-3

Sample		997	863	865	962	MIC
P (mg/kg) (cont.)						
RHODE	(960)	188 *	61.3	12.8	77.3 *	+ CB
NISLT	(1017)	155	60.9	0.1 **	79.1 *	
SUMIFRU	(1026)	161	59.4	14.9	64.9	+ E
WIKASO	(1040)	140	55.2	9.2	64.8	+ E
===== Statistical Results =====						
NDA mean		160.0	57.40	11.40	64.90	
NDA st dev		13.7	5.13	3.33	4.80	
N		20	19	19	19	
Median		159.3	57.90	11.54	64.90	
MAD		9.0	3.37	2.35	3.00	
=====						
Pb (mg/kg)						
RIOJALAB	(45)	2.67	4.86	0.627	6.70	+ CB
===== No Statistical Results =====						
Zn (mg/kg)						
RIOJALAB	(45)	3.10	8.07	2.61	6.57	+ CB
SAINTE-FOY	(80)	2.95	7.84	2.39	6.05	Z CB
CORBANA	(110)	3.14	9.20	2.89	6.99	Z CB
DOLE	(177)	3.15	8.45	2.93	6.66	+ CB
HILL	(180)	2.43 *	7.72	2.39	5.38	+ CB
QLDNR&M	(210)	3.30	9.13	2.64	8.34 *	Z CB
FORTEST	(212)	3.26	8.79	2.63	6.83	+ CB
ARIANUM	(255)	-	8.63	-	-	+ AAG
SMBPLNUS	(315)	2.66	7.28	2.11	6.15	+ CB
CHRON	(424)	3.70	8.05	2.13	6.08	
PASCAAnalab	(870)	3.18	8.96	3.00	6.65	Z AAA
LSF	(895)	3.30	7.25	2.45	7.10	
RHODE	(960)	3.80	8.91	3.06	7.12	+ CB
NISLT	(1017)	3.83	8.83	3.20	7.34	
SUMIFRU	(1026)	3.69	7.76	2.87	5.73	+ AAC
===== Statistical Results =====						
NDA mean		3.263	8.370	2.680	6.599	
NDA st dev		0.322	0.755	0.372	0.707	
N		14	15	14	14	
Median		3.221	8.450	2.635	6.653	
MAD		0.196	0.513	0.250	0.485	
=====						

ISE 2012.1 - Extraction with Ca-lactate (VDLUFA, Germany)

Sample		997	863	865	962	MIC
K (mg/kg)						
RTCZ	(1114)	29.2	99.2	35.2	2.17	
		=====	No Statistical Results	=====		
P (mg/kg)						
RTCZ	(1114)	64.9	48.1	17.3	70.0	
		=====	No Statistical Results	=====		

ISE 2012.1 - Extraction with double lactate (VDLUFA, Germany)

Sample		997	863	865	962	MIC
K (mg/kg)						
TRESE	(1117)	62.8	169	84.8	283	DL AAC
		=====	No Statistical Results	=====		
P (mg/kg)						
TRESE	(1117)	172	134	44.7	77.2	DL E
		=====	No Statistical Results	=====		

ISE 2012.1 - Water soluble 1:10 (w/v) (EN-12457-4)

Sample		997	863	865	962	MIC
Cl (mg/kg)						
LABAMB	(878)	36.0	32.0	31.0	35.0	+ JC
===== No Statistical Results =====						
F (mg/kg)						
AGROCH	(75)	6.55	18.7	1.66	11.4	Z H
LABAMB	(878)	4.00	7.0	5.00	10.0	+ JC
===== Statistical Results (no NDA) =====						
N		2	2	2	2	
Median		5.275	12.83	3.330	10.68	
MAD		1.275	5.83	1.670	0.68	
=====						
N - NO3 (as N) (mg/kg)						
LAF	(37)	17.7	7.3	-	6.0	Z E
LABAMB	(878)	77.0	33.0	4.00	28.0	+ JC
===== Statistical Results (no NDA) =====						
N		2	2	1	2	
Median		47.34	20.17	4.000	17.00	
MAD		29.67	12.83	-	11.00	
=====						

ISE 2012.1 - Extraction with 0.01M CaCl2 - 0.005M DTPA 1:10 (w/v)

Sample		997	863	865	962	MIC
Cu (mg/kg)						
AGROLAB-SL (264)		1.190 **	9.66 *	1.190 **	2.78 **	
AGROADGAZA (971)		0.820	7.82	0.540	2.08	Z AAA
EALG (981)		0.527	8.09	0.503	1.67	+ E
LDAR02 (984)		0.700	7.35	0.450	2.00	Z AA
EASRETH (1022)		0.740	7.54	0.670	2.07	P AAC
WIKASO (1040)		0.870	8.19	0.830	2.20	Z ABA
NALARAC (1076)		0.810	6.66	0.250	1.94	Z AAC
LABTECCOL (1087)		0.610	5.59 *	0.610	1.48 *	

	Statistical Results			
NDA mean	0.7448	7.677	0.5589	2.010
NDA st dev	0.1284	0.699	0.1665	0.196
N	8	8	8	8
Median	0.7750	7.680	0.5750	2.035
MAD	0.0850	0.460	0.1100	0.130

Fe (mg/kg)						
AGROLAB-SL (264)		131	347	610 **	75.8 *	
AGROADGAZA (971)		108	240	102 **	63.5	Z AAA
EALG (981)		97	290	473	47.4	+ E
LDAR02 (984)		118	231	512	48.6	Z AA
EASRETH (1022)		112	242	490	47.8	P AAC
WIKASO (1040)		98	329	576 *	53.6	Z ABA
BIOLAB (1061)		119	252	508	55.1	
NALARAC (1076)		146 *	320	480	58.1	Z AAC
LABTECCOL (1087)		101	140 *	337 **	29.9 *	

	Statistical Results			
NDA mean	111.2	273.4	496.7	53.10
NDA st dev	15.4	57.5	31.7	8.59
N	9	9	9	9
Median	112.0	252.0	490.0	53.60
MAD	10.6	38.0	21.8	5.80

Mn (mg/kg)						
AGROLAB-SL (264)		29.1	47.2	133.0	39.3 *	
AGROADGAZA (971)		32.0	39.1	42.4	35.0	Z AAA
EALG (981)		24.7 *	39.7	108.5	32.5	+ E
LDAR02 (984)		34.1	45.7	34.9	36.9	Z AA
EASRETH (1022)		33.0	45.4	65.4	35.1	P AAC
WIKASO (1040)		28.9	43.4	119.0	36.0	Z ABA
NALARAC (1076)		31.5	34.9	13.7	34.3	Z AAC
LABTECCOL (1087)		34.0	43.6	71.0	32.1	

	Statistical Results			
NDA mean	31.53	43.04	72.50	34.94
NDA st dev	3.19	4.26	52.02	2.13
N	8	8	8	8
Median	31.76	43.48	68.18	35.05
MAD	2.25	2.93	36.83	1.40

Zn (mg/kg)						
AGROLAB-SL (264)		1.71	7.23	2.50	2.60	
AGROADGAZA (971)		2.02	6.06	2.38	2.92	Z AAA
EALG (981)		1.29	6.52	2.03	2.19	+ E
LDAR02 (984)		1.60	6.85	1.90	2.55	Z AA
EASRETH (1022)		1.53	6.90	2.18	2.55	P AAC
WIKASO (1040)		2.35 *	7.82	3.15 *	5.98 **	Z ABA

	Summary Statistics			
NDA mean	1.533	6.797	2.060	2.456
NDA st dev	0.294	0.588	0.515	0.335
N	9	9	9	9

(cont.)

ISE 2012.1 - Extraction with 0.01M CaCl2 - 0.005M DTPA 1:10 (w/v)

Sample	997	863	865	962	MIC
Zn (mg/kg) (cont.)					
BIOLAB (1061)	1.58	6.87	1.84	2.31	
NALARAC (1076)	1.38	5.43 *	0.99 *	2.36	Z AAC
LABTECCOL (1087)	1.22	4.38 **	1.62	1.60 *	
	=====	Statistical Results	=====		
NDA mean	1.533	6.797	2.060	2.456	
NDA st dev	0.294	0.588	0.515	0.335	
N	9	9	9	9	
Median	1.580	6.850	2.029	2.550	
MAD	0.200	0.380	0.351	0.240	
	=====		=====		

ISE 2012.1 - Extraction with 1M KCl 1:10 (w/v)

Sample		997	863	865	962	MIC
N - NH4 (as N) (mg/kg)						
WAGENINGEN	(14)	24.7	16.5	38.9	21.1	Z E
POULAIN	(51)	23.6	18.7	39.5	21.4	RC
DATE	(89)	23.2	20.4	23.6	23.4	Z
VBBH	(859)	27.8	33.4	56.2	27.9	+ E
RLD	(893)	-	-	-	10.7	
AGROLAB	(977)	27.1	18.3	43.9	24.4	E

	Statistical Results (no NDA)			
N	5	5	5	6
Median	24.70	18.65	39.54	22.41
MAD	1.47	1.77	4.36	1.65

N - NO3 (as N) (mg/kg)						
WAGENINGEN	(14)	68.0	28.7	3.40	23.3	Z E
POULAIN	(51)	56.4	21.9	4.24	19.3	
DATE	(89)	60.0	22.2	3.39	25.7	Z Z
VBBH	(859)	60.7	29.9	3.11	24.8	+ E
RLD	(893)	-	-	-	86.7	
AGROLAB	(977)	63.4	29.0	2.43	22.2	E
BIOLAB	(1061)	75.0	33.0	7.00	29.0	

	Statistical Results (no NDA)			
N	6	6	6	7
Median	62.06	28.85	3.395	24.78
MAD	3.85	2.59	0.565	2.58

ISE 2012.1 - Phosphorus and related analysis

Sample		997	863	865	962	MIC
Al - Ox (mg/kg)						
OOSTERBEEK	(4)	646	1877	1638	701	Z CB
WAGENINGEN	(14)	650	1749	1620	674	Z CB
VBBH	(859)	574	1975	1511	733	
		===== Statistical Results (no NDA) =====				
N		3	3	3	3	
Median		645.5	1877	1620	700.6	
MAD		4.5	98	18	26.6	
=====						
Fe - Ox (mg/kg)						
OOSTERBEEK	(4)	2055	14650	8479	5823	Z CB
WAGENINGEN	(14)	1926	13280	7428	5249	Z CB
VBBH	(859)	1771	15830	7857	5998	
		===== Statistical Results (no NDA) =====				
N		3	3	3	3	
Median		1926	14653	7857	5823	
MAD		129	1173	429	175	
=====						
P - Ox (mg/kg)						
OOSTERBEEK	(4)	361	751	305	468	Z CB
WAGENINGEN	(14)	333	689	282	432	Z CB
VBBH	(859)	416	867	468	561	+ E
		===== Statistical Results (no NDA) =====				
N		3	3	3	3	
Median		360.5	751.3	305.0	468.1	
MAD		27.5	62.3	23.0	36.1	
=====						
P - AL (as P) (mg/kg)						
OOSTERBEEK	(4)	166	98.0	13.4 <	182	Z E
ALNN	(185)	134	78.8	19.2	131	
VBBH	(859)	567	383.5	160.3	316	+ E
RLD	(893)	134	82.0	10.8	152	Z E
AGROLAB	(977)	146	83.0	9.9	170	E
LABZIB	(1013)	140	66.2	9.6	107	Z E
		===== Statistical Results (no NDA) =====				
N		6	6	5	6	
Median		143.1	82.50	10.80	161.0	
MAD		9.2	9.61	1.20	25.6	
=====						
P - Bray (as P) (mg/kg)						
FELDA	(13)	112	6.0 *	5.96	8.4	Z E
UAK MARDI	(120)	120	43.7	5.10	31.2	Z E
ELAEIS.S	(130)	146	53.3 *	14.60 **	40.7 *	
NSSL	(167)	146	31.9	4.80	5.5	+ Z
FORTEST	(212)	124	45.5	12.45 *	7.7	+ E
KLAL	(233)	109	28.3	8.03	8.4	Z E
LUNUWILA	(270)	143	40.8	1.55	12.9	
IGEOLUNAM	(273)	113	25.3	6.93	9.5	Z E
SPAL	(282)	79	28.2	7.54	22.9	Z E
DAR	(296)	151	20.5	6.26	24.0	Z E
SMART	(326)	77	21.6	4.68	5.5	
IRRI	(843)	173	40.3	12.88 *	35.3	Z E
SPASL	(855)	120	24.6	7.39	7.2	Z CB
RF-R&D	(905)	90	33.9	5.06	11.2	+ E
		===== Summary Statistics =====				
NDA mean		114.0	30.83	6.016	14.63	
NDA st dev		41.0	11.21	2.769	12.33	
N		20	20	20	20	(cont.)

ISE 2012.1 - Phosphorus and related analysis

Sample		997	863	865	962	MIC
P - Bray (as P) (mg/kg) (cont.)						
MCA	(970)	46	25.8	2.40	19.0	
LS-MRC	(978)	120	19.6	3.83	21.3	Z E
SMART-BGR	(1016)	69	24.0	3.66	2.5	+ Z
WIKASO	(1040)	154	52.6	8.50	1.1	+ E
NALARAC	(1076)	85	36.5	17.01 **	29.5	+ E
LABTECCOL	(1087)	86	31.7	8.00	28.4	

	Statistical Results			
NDA mean	114.0	30.83	6.016	14.63
NDA st dev	41.0	11.21	2.769	12.33
N	20	20	20	20
Median	116.2	29.98	6.595	12.05
MAD	29.5	7.45	1.850	8.12

P - Olsen (as P) (mg/kg)						
ATVC	(7)	-	-	-	44.0	+ E
FELDA	(13)	30.1	38.9	13.5	23.4 **	Z E
LAF	(37)	51.3	57.0	12.0	60.0	Z E
BELFAST	(39)	35.8	41.2	8.7	39.9	Z E
LAS	(42)	43.1	50.3	11.2	51.9	+ E
EDAFONEI	(57)	29.5	31.1	7.4	43.3	Z E
XGCALAFIGA	(135)	43.0	50.0	10.0	49.0	Z E
NSSL	(167)	47.2	59.1	6.1	56.8	
PLATINA222	(172)	71.0 **	75.0 *	19.0	71.0 *	+ E
HILL	(180)	32.6	47.5	11.4	42.2	+ E
CSS	(186)	41.4	47.8	14.8	42.0	Z E
MARELI	(204)	47.0	62.7	14.2	53.9	Z E
GSISMA	(214)	32.3	43.6	18.5	34.1	+ E
MERLEWOOD	(222)	44.4	50.1	10.5	46.6	
ARCWSG	(238)	43.9	51.3	8.9	50.7	Z E
AECAGRICS	(248)	38.9	41.6	6.0	47.0	E Z
AARDVARKAA	(250)	36.8	41.9	9.9	48.4	
IGEOLUNAM	(273)	42.2	55.6	15.7	43.7	Z E
SPAL	(282)	28.6	37.8	7.4	203.0 **	Z O
Momotombo	(297)	82.1 **	90.4 **	20.0	91.3 **	Z E
ERSAFVGSCA	(307)	48.0	54.6	13.5	52.5	Z E
IRRI	(843)	39.4	38.6	4.2	42.8	Z E
PASCAAnalab	(870)	53.9	58.7	12.6	51.6	X E
LABAMB	(878)	47.0	51.0	15.0	62.0	+ E
LSF	(895)	76.2 **	27.6 *	13.7	49.7	
RHODE	(960)	52.7	36.4	18.0	50.8	+ E
AGROADGAZA	(971)	47.4	43.0	10.4	49.6	
EALG	(981)	39.0	53.6	9.9	49.5	+ E
ABER	(1001)	33.2	45.1	14.7	44.0	+ E
HCFR	(1003)	42.0	43.0	6.0	45.0	
LASPEE	(1036)	56.9	58.6	17.1	53.3	Z E
WIKASO	(1040)	39.3	48.0	16.3	48.1	+ E
KARI-NARL	(1046)	21.4 *	22.0 *	6.4	18.7 **	Z E
BIOLAB	(1061)	47.0	54.0	13.0	50.0	
INNOAGRAL	(1062)	45.8	47.1	18.1	56.3	+ E
CDAgrogand	(1085)	49.4	50.5	12.8	56.1	

	Statistical Results			
NDA mean	42.58	47.90	12.21	48.86
NDA st dev	7.56	9.36	4.24	7.65
N	35	35	35	36
Median	43.10	48.00	12.60	49.54
MAD	4.90	6.40	2.72	5.52

ISE 2012.1 - Phosphorus and related analysis

Sample	997	863	865	962	MIC
P - w (as P) (mg/l soil)					
OOSTERBEEK (4)	14.0	14.8	1.80 <	12.2	Z E
WAGENINGEN (14)	16.0	19.0	3.00	21.0	E
ALNN (185)	9.4	10.7	3.00 <	12.1	
RLD (893)	26.3	49.2	11.50	54.7	Z
WIKASO (1040)	3.4	2.4	0.81	1.2	+ E
===== Statistical Results (no NDA) =====					
N	5	5	3	5	
Median	14.04	14.75	3.000	12.19	
MAD	4.62	4.25	2.190	8.81	
=====					

ISE 2012.1 - Extraction with 1M HCl (Polish standard)

Sample		997	863	865	962	MIC
B (mg/kg)						
LABTECCOL	(1087)	1.27	0.790	0.570	1.73	Z E
		=====	No Statistical Results	=====		

ISE 2012.1 - UK Soil Methods

Sample	997	863	865	962	MIC
K - NH4NO3 (1/5) (mg/l)					
ARCWSG (238)	64.9	186	62.1	241	RMV
CHRON (424)	90.0 *	254 **	72.0	335 **	
SAC-CAL (973)	70.0	181	59.9	245	
ANGLIA (1000)	77.0	175	68.0	264	
NRM (1002)	63.4	158 *	60.4	259	
HCFR (1003)	93.0 **	235 *	85.0 *	362 **	
EURO (1004)	70.0	191	68.0	270	
AUSTIN (1005)	75.0	201	72.0	282	
OMEX (1006)	71.0	199	72.0	281	
FAST (1007)	73.9	192	62.1	269	
SPAR (1008)	77.5	210	75.0	305 *	
ALLIAN (1009)	66.0	177	62.0	264	
GJRMGNJT (1020)	71.0	197	68.0	265	

	Statistical Results			
NDA mean	71.50	190.2	67.29	266.4
NDA st dev	7.07	16.1	8.10	17.2
N	13	13	13	13
Median	71.00	192.0	68.00	269.0
MAD	5.00	11.0	5.90	12.0

Mg - NH4NO3 (1/5) (mg/l)					
ARCWSG (238)	131	412	66.8	147 **	RMV
CHRON (424)	165	515 *	88.0	188	
SAC-CAL (973)	131	378	62.4	142 **	
ANGLIA (1000)	147	400	74.0	170	
NRM (1002)	148	419	84.1	176	
HCFR (1003)	157	508 *	80.0	197	
EURO (1004)	147	456	80.0	180	
AUSTIN (1005)	148	485	81.0	183	
OMEX (1006)	140	449	79.0	173	
FAST (1007)	128	387	65.5	150 *	
SPAR (1008)	157	450	87.0	190	
ALLIAN (1009)	143	421	74.0	177	
GJRMGNJT (1020)	138	435	85.0	180	

	Statistical Results			
NDA mean	144.4	431.6	78.78	179.7
NDA st dev	12.8	37.2	8.83	10.5
N	13	13	13	13
Median	147.0	435.0	80.00	177.0
MAD	9.0	22.9	6.00	7.0

P - NaHCO3 (1/20) (mg/l)					
ARCWSG (238)	52.3	45.2	7.20	43.7	RMV
CHRON (424)	66.0 **	44.0	10.00	41.0	
SAC-CAL (973)	47.0	40.7	9.80	35.9	
ANGLIA (1000)	47.0	41.0	12.00	37.0	
ABER (1001)	48.6	37.3	11.15	37.5	+ E
NRM (1002)	40.6	36.7	9.40	33.4	
HCFR (1003)	57.0	44.0	9.00	44.0	
EURO (1004)	43.0	43.0	16.00 **	41.0	
AUSTIN (1005)	43.0	34.0	10.00	33.0	
OMEX (1006)	51.0	55.0 **	33.00 **	42.0	
FAST (1007)	48.8	43.1	10.00	36.1	
SPAR (1008)	42.8	38.8	9.80	39.6	
ALLIAN (1009)	42.0	36.0	9.00	40.0	
GJRMGNJT (1020)	47.0	43.0	12.00	39.0	

	Summary Statistics			
NDA mean	46.57	41.03	9.945	38.97
NDA st dev	5.61	3.92	1.405	3.72
N	14	14	14	14

(cont.)

ISE 2012.1 - UK Soil Methods

Sample	997	863	865	962	MIC
P – NaHCO₃ (1/20) (mg/l) (cont.)					
	===== Statistical Results =====				
NDA mean	46.57	41.03	9.945	38.97	
NDA st dev	5.61	3.92	1.405	3.72	
N	14	14	14	14	
Median	47.00	42.00	10.000	39.30	
MAD	4.00	2.60	1.000	2.50	
=====					
pH - H₂O (2/5) (...)					
ARCWSG (238)	5.80 *	5.80	4.70	7.50	
CHRON (424)	6.00	5.90	4.70	7.70	
ANGLIA (1000)	5.90	5.80	4.80	7.80	
ABER (1001)	6.21 **	6.11 *	4.90	7.97 **	+ H
NRM (1002)	5.95	5.85	4.60	7.56	
HCFR (1003)	6.00	5.93	4.86	7.69	
EURO (1004)	6.00	5.80	4.80	7.60	
AUSTIN (1005)	5.80 *	6.00	4.90	7.70	
OMEX (1006)	5.90	5.80	4.70	7.60	
FAST (1007)	6.00	6.01	4.89	7.66	
SPAR (1008)	5.95	5.75	4.54	7.81	
ALLIAN (1009)	6.34 **	6.03	4.82	7.58	
GJRMGNJT (1020)	6.60 **	5.80	4.70	5.50 **	
LASPEE (1036)	4.36 **	7.16 **	5.97 **	6.95 **	
INNOAGRAL (1062)	5.94	5.74	4.64	7.63	+ RC
	===== Statistical Results =====				
NDA mean	5.950	5.857	4.759	7.649	
NDA st dev	0.073	0.120	0.141	0.103	
N	15	15	15	15	
Median	5.950	5.850	4.800	7.630	
MAD	0.050	0.080	0.100	0.070	
=====					

ISE 2012.1 Z - Scores

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
ALCONTROL (1)				
Al (AE)	-1.10	-0.74	-0.94	-0.70
As (AE)	<	-0.49	-0.83	-0.10
Ba (AE)	<	-1.67	-1.24	-0.61
Be (AE)	< #	#	#	-0.94
Ca (AE)	0.43	0.56	-0.31	-0.30
Cd (AE)	<	-2.47 *	< #	<
Co (AE)	<	-0.19	-0.15	-0.07
Cr (AE)	-0.39	-0.82	-0.74	-0.66
Cu (AE)	<	0.10	<	-0.01
Fe (AE)	-0.66	-0.70	-0.48	-0.42
Hg (AE)	0.49	0.29	-0.79	0.11
K (AE)	-0.18	-0.20	-0.32	0.12
Mg (AE)	-0.47	-0.60	-0.67	-2.20 *
Mn (AE)	-0.41	0.27	-0.19	-0.56
Na (AE)	< #	-0.27	#	-0.70
Ni (AE)	0.21	-0.33	-0.17	-0.04
P (AE)	0.25	-0.66	-0.39	-0.04
Pb (AE)	0.14	0.10	-0.03	1.31
S (AE)	1.43	1.98	0.50	6.46 **
Sr (AE)	< #	#	#	#
V (AE)	0.23	-2.01 *	-1.20	-1.65
Zn (AE)	<	0.16	-0.51	0.62
EC-SC (ISO 11265) (SC)	-1.33	1.03	-3.71 < **	1.22
Fraction < 16 µm (SC)	-1.19	-0.66	-1.15	-2.37 *
Fraction < 2 µm (SC)	-0.85	-0.66	-0.64	-1.89
Fraction < 63 µm (SC)	-0.60	-2.98 *	-1.67	-4.95 **
Org.matter (L.O.I.) (SC)	-1.49	5.66 **	3.17 **	1.35
pH - CaCl2 (SC)	0.87	0.93	0.01	-4.13 **
pH - H2O (SC)	0.81	2.13 *	1.54	-1.66
pH - KCl (SC)	0.66	0.89	0.00	-0.84
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	2.20 *
TOC=Total Org. C (SC)	-0.92	0.15	0.06	0.18
CN - Total (OD)	#	#	#	#
LQA-ATP (2)				
C - org others (W&B a.o.) (SC)	-1.13	-0.86	-0.64	-1.31
EC-SC (ISO 11265) (SC)	-1.83	1.44	0.57	-1.09
pH - H2O (SC)	0.30	0.95	0.40	0.48
pH - KCl (SC)	-1.52	-0.83	-1.65	-0.45
Ca (AA)	-0.43	-0.31	-0.39	0.48
CEC (AA)	1.31	3.07 **	1.49	0.22
K (AA)	-0.15	-0.31	-0.02	0.06
Mg (AA)	0.04	1.19	0.36	1.09
Na (AA)	-2.14 *	-3.04 **	-0.72	-1.96
OOSTERBEEK (4)				
N - elementary (RT)	-0.42	0.72	-0.04	0.05
S (RT)	-0.66	-2.03 *	-0.67	-0.48
As (AR)	0.60	1.69	1.82	2.14 *
Cd (AR)	0.02	0.63	0.51	0.96
Cr (AR)	2.29 *	3.99 **	3.75 **	3.64 **
Cu (AR)	0.57	2.13 *	2.03 *	1.53
Hg (AR)	-1.15	0.99	0.54	0.76
Ni (AR)	0.73	2.40 *	2.03 *	2.45 *
Pb (AR)	0.79	1.50	1.39	1.91
Zn (AR)	-0.11	1.70	0.84	2.95 *
B (CC)	#	#	< #	#
Co (CC)	#	#	#	#
Cu (CC)	#	#	#	#
K (CC)	-0.41	0.00	1.21	0.11
Mg (CC)	-0.39	0.27	-0.23	-0.17
Mn (CC)	#	#	#	#
N - NH4 (as N) (CC)	0.18	0.95	0.42	0.59
N - NO3 (as N) (CC)	-3.47 **	0.34	0.75	0.85
N total soluble (CC)	#	#	#	#
Na (CC)	#	#	< #	#

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
OOSTERBEEK (4) (cont.)				
P (CC)	#	#	< #	#
Zn (CC)	#	#	#	< #
EC-SC (ISO 11265) (SC)	0.23	-0.19	-0.22	0.26
Fraction < 2 µm (SC)	-1.95	0.26	0.20	0.30
Org.matter (L.O.I.) (SC)	-0.15	-0.55	-0.42	-0.51
pH - CaCl2 (SC)	-	0.51	0.71	0.57
pH - KCl (SC)	-0.65	-0.49	0.32	-0.45
TC=Total C (org.+inorg.) (SC)	-1.10	0.03	-0.50	-0.29
TOC=Total Org. C (SC)	-0.48	0.22	0.17	0.10
Ca (CH)	#	#	#	#
CEC (CH)	#	#	#	#
K (CH)	#	#	#	#
Mg (CH)	#	#	#	#
Na (CH)	#	#	#	#
Al - Ox (PHOS)	#	#	#	#
Fe - Ox (PHOS)	#	#	#	#
P - Ox (PHOS)	#	#	#	#
P - AL (as P) (PHOS)	#	#	< #	#
P - w (as P) (PHOS)	#	#	< #	#
ATVC (7)				
Hg (RT)	-0.09	0.40	0.42	-1.37
N - elementary (RT)	0.37	0.40	0.62	-0.11
Cd (AE)	<	-0.25	< #	<
Co (AE)	0.68	0.20	0.22	0.18
Cr (AE)	0.56	-	-	0.49
Cu (AE)	-0.16	-1.18	-0.63	-0.77
Ni (AE)	0.15	0.38	0.46	-0.01
Pb (AE)	-0.32	-1.15	-1.30	-
Zn (AE)	1.00	0.37	1.48	0.70
C - org others (W&B a.o.) (SC)	-0.18	-0.38	-0.20	-0.15
Fraction < 16 µm (SC)	0.27	1.06	1.51	1.56
Fraction < 2 µm (SC)	0.33	-0.18	0.41	-0.40
Fraction < 63 µm (SC)	-1.16	-0.35	-0.56	-1.00
pH - H2O (SC)	-0.20	-0.23	-0.16	0.13
TC=Total C (org.+inorg.) (SC)	0.78	0.36	1.69	0.46
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	1.21
Moisture-content (OD)	0.20	-0.23	-0.62	-0.40
P - Olsen (as P) (PHOS)	-	-	-	-0.64
BOANALHOAG (9)				
Cd (NA)	-0.22	0.52	2.48 *	1.04
Co (NA)	0.78	0.53	2.46 *	0.59
Cr (NA)	-0.20	-0.21	1.18	1.45
Cu (NA)	-0.15	-0.34	-0.13	0.09
Hg (NA)	-0.45	-0.12	12.28 **	0.26
Mo (NA)	-0.02	-0.38	2.00 *	#
Ni (NA)	0.42	-0.74	1.39	-0.04
Pb (NA)	0.54	-0.40	-1.33	1.88
Zn (NA)	0.47	0.30	1.34	4.00 **
SABAH (10)				
C - org others (W&B a.o.) (SC)	-0.49	-5.03 **	-1.43	6.75 **
pH - H2O (SC)	2.57 *	10.17 **	8.57 **	-8.66 **
pH - KCl (SC)	3.70 **	21.15 **	16.62 **	-9.39 **
Ca (AA)	2.23 *	17.02 **	29.52 **	-2.35 *
CEC (AA)	1.57	-1.50	6.10 **	0.88
K (AA)	13.05 **	1.14	13.60 **	-2.44 *
Mg (AA)	-1.57	-2.55 *	28.85 **	-3.75 **
Na (AA)	-0.16	-0.99	12.09 **	-1.95
KUCHING (12)				
N - elementary (RT)	-4.76 **	-3.79 **	-4.99 **	-3.40 **
Org.matter (L.O.I.) (SC)	-2.40 *	-5.31 **	-3.38 **	-2.63 *
pH - H2O (SC)	0.30	-0.23	-0.73	-0.59
TOC=Total Org. C (SC)	0.87	1.03	1.25	0.47

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
KUCHING (12) (cont.)				
B - Hot water (OD)	#	#	#	#
Ca (AA)	-1.07	-0.79	-0.01	0.42
CEC (AA)	8.88 **	4.81 **	5.48 **	5.68 **
K (AA)	-2.35 *	-1.77	-1.28	-1.03
Mg (AA)	-1.32	-0.95	-0.87	-0.67
Na (AA)	-1.12	-0.99	-0.79	-0.77
FELDA (13)				
N (AE)	-2.99 *	-2.48 *	-3.00 **	-2.21 *
pH - H2O (SC)	-1.21	-4.96 **	-5.84 **	-4.87 **
Ca (AA)	4.20 **	-1.45	3.16 **	-0.56
CEC (AA)	-1.63	-1.92	-0.47	-1.72
K (AA)	7.00 **	0.60	5.69 **	1.79
Mg (AA)	0.30	-1.81	0.05	-0.06
Na (AA)	-0.80	-2.21 *	1.42	-0.91
P - Bray (as P) (PHOS)	-0.06	-2.21 *	-0.02	-0.50
P - Olsen (as P) (PHOS)	-1.65	-0.96	0.31	-3.33 **
WAGENINGEN (14)				
N (AE)	0.59	0.37	-0.72	0.61
Al (AR)	0.04	0.30	0.19	0.31
As (AR)	1.99	0.15	0.61	0.18
Ca (AR)	0.08	0.88	0.33	0.73
Cd (AR)	0.50	0.65	-0.36	0.04
Co (AR)	-0.46	0.24	0.10	0.26
Cr (AR)	0.65	1.68	0.40	1.15
Cu (AR)	-1.33	-1.89	-7.79 **	-3.95 **
Fe (AR)	1.20	0.87	0.46	0.97
K (AR)	0.40	0.00	0.16	-0.10
Mg (AR)	0.00	1.01	0.75	0.61
Mn (AR)	0.49	-0.61	0.20	-0.07
Na (AR)	-0.46	-0.06	-0.45	-0.11
Ni (AR)	0.45	1.49	-0.24	0.28
P (AR)	-0.71	-0.80	-1.04	-0.79
Pb (AR)	-0.21	-0.36	-0.65	-0.86
S (AR)	-0.13	1.46	2.15 *	-0.86
Sn (AR)	7.47 **	0.44	-0.17	0.51
Zn (AR)	11.23 **	-0.08	-0.51	-3.28 **
K (CC)	-0.61	-0.90	-0.63	0.01
N - NH4 (as N) (CC)	-0.52	-0.57	-0.50	-0.37
N - NO3 (as N) (CC)	-0.65	-0.79	-0.73	-0.48
N total soluble (CC)	#	#	#	#
Na (CC)	#	#	#	#
P (CC)	#	#	#	#
Org.matter (L.O.I.) (SC)	1.34	-0.01	-0.01	-0.11
pH - CaCl2 (SC)	0.14	-0.13	-0.11	1.86
pH - H2O (SC)	0.10	0.77	0.74	1.66
pH - KCl (SC)	0.22	0.03	0.24	1.24
Moisture-content (OD)	0.20	0.34	-0.62	0.16
N - NH4 (as N) (KCL)	#	#	#	#
N - NO3 (as N) (KCL)	#	#	#	#
Al - Ox (PHOS)	#	#	#	#
Fe - Ox (PHOS)	#	#	#	#
P - Ox (PHOS)	#	#	#	#
P - w (as P) (PHOS)	#	#	#	#
REDUIT (15)				
Ca (AE)	3.51 **	-3.06 **	-6.77 **	-3.48 **
K (AE)	-1.06	-1.47	-1.22	-0.84
N (AE)	-0.13	-0.77	0.28	0.06
P (AE)	-5.44 **	-4.29 **	-4.60 **	-2.84 *
Zn (AE)	-0.86	-4.90 **	-5.05 **	-2.50 *
C - org others (W&B a.o.) (SC)	1.27	1.45	1.00	1.99
pH - H2O (SC)	-0.55	-0.41	-0.45	0.16

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Sample	997	863	865	962
LABTIUM (16)				
Al (RT)	0.28	1.16	1.07	1.31
As (RT)	<	-0.15	<	<
Ba (RT)	-0.83	-0.07	-0.09	-0.99
Bi (RT)	< #	< #	< #	< #
C - elementary (RT)	0.23	0.74	0.20	1.00
Ca (RT)	-0.13	0.26	-0.09	0.53
Ce (RT)	<	0.40	0.54	1.11
Cr (RT)	0.77	-0.84	-0.67	-0.45
Cu (RT)	<	0.45	<	<
Fe (RT)	-0.78	-0.83	-0.87	-0.41
Ga (RT)	<	-0.66	<	<
Hg (RT)	-1.47	-0.48	-0.37	0.10
K (RT)	-0.86	-0.55	-0.55	-0.85
La (RT)	<	-5.23 **	<	0.71
Mg (RT)	0.22	0.38	0.67	1.12
Mn (RT)	-3.56 **	-1.63	-1.69	-1.29
Mo (RT)	<	<	<	<
Na (RT)	0.92	-0.38	0.71	0.53
Nb (RT)	1.57	-2.69 *	-1.18	-6.26 < **
Ni (RT)	<	1.91	<	0.97
P (RT)	0.86	1.41	1.71	1.19
Pb (RT)	<	1.35	<	-3.88 **
Rb (RT)	-3.05 **	0.15	0.39	0.62
S (RT)	0.23	0.27	0.26	0.05
Sb (RT)	<	<	<	<
Sc (RT)	<	<	<	<
Si (RT)	0.18	-0.78	0.13	0.02
Sn (RT)	<	<	<	<
Sr (RT)	0.77	0.22	-0.53	0.10
Th (RT)	<	0.86	<	2.15 *
Ti (RT)	-0.49	0.30	0.07	0.82
U (RT)	<	<	<	<
V (RT)	-1.80	1.04	0.29	0.95
Y (RT)	0.88	-1.07	2.14 *	-0.54
Zn (RT)	1.40	-0.45	-0.56	-0.65
Zr (RT)	0.09	-0.62	-0.50	0.07
Ag (AR)	#	#	#	#
Al (AR)	-4.30 **	-2.59 *	-4.43 **	-3.46 **
As (AR)	0.25	1.04	0.87	1.82
B (AR)	< #	-0.97	< #	-1.30
Ba (AR)	-1.08	-1.24	-0.84	-0.69
Be (AR)	-0.70	-0.57	-0.61	-0.11
Bi (AR)	#	#	#	#
Ca (AR)	-0.95	0.11	-0.75	-0.38
Cd (AR)	2.00 *	2.33 *	2.14 *	3.85 **
Co (AR)	-0.09	0.01	1.04	0.58
Cr (AR)	-1.16	-1.50	-2.21 *	-1.75
Cu (AR)	2.78 *	0.87	1.49	0.77
Fe (AR)	-1.26	-1.33	-1.04	-1.57
K (AR)	-4.31 **	-2.86 *	-3.45 **	-3.18 **
Mg (AR)	-1.94	-2.58 *	-2.36 *	-2.11 *
Mn (AR)	-0.82	-1.56	-0.79	-0.76
Mo (AR)	0.28	0.98	0.84	0.84
Na (AR)	<	-7.00 **	-2.31 < *	-4.10 **
Ni (AR)	-0.13	0.19	-0.60	1.73
P (AR)	0.03	0.53	-0.44	0.42
Pb (AR)	2.11 *	2.56 *	2.81 *	3.16 **
S (AR)	1.39	0.62	0.38	1.49
Sb (AR)	-0.06	0.49	0.25	0.30
Se (AR)	0.85	1.04	0.74	1.13
Sn (AR)	-0.76	-2.36 *	-1.69	-0.94
Sr (AR)	-1.59	-0.70	-1.04	-0.06
Th (AR)	#	#	#	#
Ti (AR)	-2.47 *	-2.13 *	-2.97 *	-2.55 *
Tl (AR)	#	-1.44	-0.81	-0.28
U (AR)	#	#	#	#

(cont)

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Sample	997	863	865	962
LABTIUM (16) (cont.)				
V (AR)	-1.37	-0.50	-1.20	-0.85
Zn (AR)	-0.73	-0.74	-1.39	-0.22
ULS (22)				
Cd (NA)	-0.68	0.21	0.08	0.90
Co (NA)	-0.71	-0.54	-3.48 **	-1.40
Cr (NA)	-0.37	-1.03	-4.08 **	-1.31
Cu (NA)	1.00	4.35 **	9.63 **	7.10 **
Ni (NA)	-1.54	-0.67	-3.92 **	-2.13 *
Pb (NA)	0.20	-0.68	-1.73	0.32
Zn (NA)	-3.24 **	-1.72	-5.14 **	-0.72
VERITAS (23)				
Cd (NA)	0.52	0.52	0.22	-0.23
Co (NA)	<	0.02	-0.08	0.15
Cr (NA)	-0.02	-0.26	-1.12	-0.72
Cu (NA)	-0.41	-0.45	-2.21 *	-1.10
Hg (NA)	0.31	-2.23 *	-0.93	-0.70
Mo (NA)	0.56	-0.93	0.12	#
Ni (NA)	-1.37	0.06	-0.39	-0.39
Pb (NA)	-0.81	0.42	0.58	0.21
Zn (NA)	-0.19	1.00	-0.54	0.09
MONICA (24)				
N - elementary (RT)	-0.50	-0.49	-0.64	-0.66
TC=Total C (org.+inorg.) (SC)	-0.38	-0.75	-0.64	-1.14
delta 13C (OD)	#	#	#	#
delta 15N (OD)	#	#	#	#
Al (AC)	< #	< #	#	< #
Ca (AC)	#	#	#	#
Fe (AC)	< #	#	#	< #
K (AC)	< #	< #	< #	< #
Mg (AC)	#	#	#	#
Mn (AC)	#	#	#	#
Na (AC)	< #	#	< #	< #
HAMELN (25)				
Al (AR)	0.27	0.43	0.03	-0.07
As (AR)	1.22	-1.07	-0.11	-0.59
Ba (AR)	-0.29	-0.35	-0.02	-0.10
Be (AR)	0.83	-1.75	0.03	-0.55
Bi (AR)	#	#	#	#
Ca (AR)	1.05	-0.27	0.10	-0.17
Cd (AR)	0.80	0.53	0.89	0.67
Co (AR)	0.04	-1.68	-1.37	-1.32
Cr (AR)	1.81	0.42	0.44	0.11
Cu (AR)	0.09	-0.72	-2.83 *	-1.10
Fe (AR)	1.00	0.77	0.76	0.25
Hg (AR)	-0.23	0.12	-0.29	0.01
K (AR)	-0.06	0.14	0.07	-0.24
Li (AR)	#	#	#	#
Mg (AR)	0.11	0.72	0.00	0.47
Mn (AR)	0.87	0.56	1.05	0.77
Mo (AR)	3.68 **	0.69	0.27	0.35
Na (AR)	0.02	-0.06	-0.12	-0.29
Ni (AR)	1.90	0.72	1.34	0.57
P (AR)	0.77	-0.37	-0.44	-0.49
Pb (AR)	0.69	-0.52	-0.46	-1.05
S (AR)	0.50	-1.56	-1.15	-1.20
Sb (AR)	0.70	-0.43	-0.26	-0.56
Se (AR)	-0.56	-0.61	-0.73	-0.53
Sn (AR)	-	-0.73	-0.49	-0.94
Sr (AR)	0.94	0.02	0.14	-1.01
Tl (AR)	-	0.57	0.75	0.07
V (AR)	0.29	-0.20	-0.17	-0.53
Zn (AR)	0.83	0.83	0.81	1.53

(cont)

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Sample	997	863	865	962
HAMELN (25) (cont.)				
Fraction < 2 µm (SC)	0.38	0.67	0.32	0.80
Fraction < 63 µm (SC)	0.13	-0.06	0.41	-0.07
Fraction > 63 µm (SC)	-0.27	0.26	-0.64	-0.31
LKS (27)				
Cd (AE)	0.43	0.26	-	-0.58
Cr (AE)	-2.68 *	-1.37	-0.84	-1.00
Cu (AE)	-0.24	0.54	-0.03	0.67
Hg (AE)	1.44	0.46	2.03 *	1.05
Ni (AE)	-2.89 *	-1.60	-0.99	-1.14
Pb (AE)	0.69	-1.81	-0.83	-0.99
Zn (AE)	0.39	-1.58	-0.35	-2.38 *
FRIDOLIN (29)				
Cd (NA)	0.79	0.32	0.08	-0.25
Co (NA)	0.49	0.79	0.39	0.93
Cr (NA)	2.07 *	0.74	0.79	1.03
Cu (NA)	0.15	-0.92	0.06	-0.08
Hg (NA)	-0.20	-1.03	-0.18	0.05
Mo (NA)	0.30	0.37	0.88	#
Ni (NA)	1.37	1.13	0.81	0.84
Pb (NA)	0.66	0.19	0.17	0.15
Tl (NA)	#	#	#	#
Zn (NA)	0.47	0.49	0.34	-0.01
Cd (SN)	1.31	0.52	0.29	#
Cu (SN)	#	-0.31	#	0.68
Ni (SN)	-1.52	-2.76 *	-0.53	#
Pb (SN)	#	#	#	#
Zn (SN)	#	0.16	0.26	#
C - org others (W&B a.o.) (SC)	-0.07	-0.13	-0.14	-0.05
F - Total (F)	#	#	#	#
IUNGPUL (32)				
C - elementary (RT)	-1.03	0.33	-23.46 **	-0.13
Hg (RT)	-1.17	0.50	0.35	0.02
N - elementary (RT)	-0.66	0.82	0.41	0.44
B (AR)	#	0.23	#	0.50
Cd (AR)	-1.31	0.10	-0.74	-0.22
Cr (AR)	-1.04	-0.33	-0.45	-0.13
Cu (AR)	-0.93	0.45	-1.02	0.32
Fe (AR)	-0.73	-0.40	16.76 **	-0.14
Mn (AR)	-1.11	0.77	-0.69	0.47
Mo (AR)	0.06	-0.52	-0.62	-0.47
Ni (AR)	-0.37	0.29	0.25	0.40
Pb (AR)	-0.60	0.48	-0.37	0.38
S (AR)	-0.52	-2.19 *	0.62	-0.34
Se (AR)	<	<	<	<
Zn (AR)	-0.10	0.25	1.45	2.16 *
pH - H2O (SC)	0.40	0.00	0.69	-0.20
pH - KCl (SC)	0.22	0.03	0.00	0.32
RECKENHOLZ (36)				
Cd (NA)	0.06	0.74	0.92	0.14
Co (NA)	-0.46	-1.38	0.42	-0.67
Cr (NA)	0.32	-0.29	0.61	-0.62
Cu (NA)	0.34	0.56	0.50	0.86
Hg (NA)	0.85	0.48	0.28	-0.70
Ni (NA)	0.25	-0.80	-0.87	-1.15
Pb (NA)	-0.45	-0.53	1.07	0.00
Zn (NA)	1.68	0.16	0.72	0.18
LAF (37)				
C - elementary (RT)	-0.42	0.22	4.63 **	0.36
N - elementary (RT)	-1.60	-1.12	-2.20 *	-1.83
Cd (AE)	0.11	-2.18 *	-	-1.66
Cr (AE)	0.97	0.76	1.33	0.71

(cont)

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Sample	997	863	865	962
LAF (37) (cont.)				
Cu (AE)	-0.73	-1.50	-2.22 *	-0.64
Hg (AE)	-2.68 *	-1.40	-1.92	-3.02 **
N (AE)	0.08	0.37	-0.29	0.30
Ni (AE)	-1.63	-0.63	-0.90	-0.38
Pb (AE)	0.82	0.46	1.51	1.50
Zn (AE)	1.09	0.13	0.76	1.16
C - org others (W&B a.o.) (SC)	-0.11	0.58	0.34	-0.12
EC-SC (ISO 11265) (SC)	0.41	0.25	0.18	0.75
pH - H2O (SC)	1.31	1.54	0.40	0.84
Moisture-content (OD)	0.83	0.15	0.05	-0.97
Ca (AA)	0.08	0.09	0.18	0.30
CEC (AA)	-0.46	0.07	0.13	0.25
K (AA)	-0.09	0.34	0.55	0.06
Mg (AA)	0.55	0.48	0.71	0.24
Na (AA)	1.50	0.46	0.87	0.16
N - NO3 (as N) (WS)	#	#	-	#
P - Olsen (as P) (PHOS)	1.16	0.97	-0.05	1.46
BELFAST (39)				
N - elementary (RT)	1.16	0.69	0.20	0.20
pH - H2O (SC)	-0.20	0.42	0.18	0.59
TC=Total C (org.+inorg.) (SC)	1.28	0.75	0.21	0.36
K (AA)	-0.09	-1.21	-0.49	-0.47
Mg (AA)	0.81	0.66	0.36	-0.20
P - Olsen (as P) (PHOS)	-0.90	-0.72	-0.83	-1.17
LAS (42)				
Al (RT)	0.36	1.61	0.66	0.89
As (RT)	-0.42	0.99	0.39	0.56
Ba (RT)	-0.09	-0.66	-0.44	-0.44
Ca (RT)	0.79	0.30	0.62	0.08
Cd (RT)	0.07	-0.18	-0.12	-0.53
Co (RT)	-1.25	0.11	-0.42	-0.56
Cr (RT)	-0.28	-1.33	0.38	-0.54
Cu (RT)	-0.52	0.45	-0.44	-0.15
Fe (RT)	1.08	2.59 *	1.88	1.73
Hg (RT)	0.28	0.13	-0.39	0.31
K (RT)	1.01	1.18	0.60	1.25
Li (RT)	#	#	#	#
Mg (RT)	0.44	0.82	0.96	0.98
Mn (RT)	0.99	0.38	1.01	0.40
Mo (RT)	-0.30	-0.70	-0.55	-0.56
Na (RT)	0.64	0.20	0.63	0.41
Ni (RT)	0.20	0.37	0.42	-0.18
P (RT)	1.37	1.40	1.07	0.53
Pb (RT)	0.28	-0.05	0.37	0.13
S (RT)	0.23	-0.43	-0.67	0.11
Sb (RT)	0.07	1.04	0.25	0.52
Si (RT)	0.68	0.55	-0.07	-0.19
Sn (RT)	-0.89	0.61	0.33	0.16
Sr (RT)	0.20	-0.19	-0.03	-0.29
Ti (RT)	-1.38	-0.07	-0.62	-0.26
Tl (RT)	#	#	#	#
V (RT)	0.52	0.21	-0.10	-0.34
Zn (RT)	-0.04	0.55	0.71	0.20
Al (AR)	-0.75	-0.27	-0.75	-0.83
Ca (AR)	-0.56	-0.33	-0.75	0.11
Cd (AR)	-0.40	-0.76	-0.86	-0.82
Cr (AR)	0.37	0.20	-0.22	-0.01
Cu (AR)	-0.12	0.45	-0.45	0.02
Fe (AR)	-0.06	0.60	0.11	0.31
Hg (AR)	-0.11	0.05	-0.24	0.10
K (AR)	-0.81	-0.45	-0.75	-0.65
Mg (AR)	-0.82	-0.64	-0.71	-0.70
Mn (AR)	-0.07	0.82	0.20	0.08
Na (AR)	-0.38	-0.34	-0.67	0.19

(cont)

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Sample	997	863	865	962
LAS (42) (cont.)				
Ni (AR)	1.05	0.52	0.13	0.40
P (AR)	0.63	1.09	0.41	0.46
Pb (AR)	0.63	0.48	0.11	-0.02
S (AR)	0.07	0.58	0.32	0.96
Zn (AR)	0.52	1.16	0.64	0.98
Al (CH)	#	#	#	#
Ca (CH)	#	#	#	#
CEC (CH)	#	#	#	#
H (CH)	#	#	#	< #
K (CH)	#	#	#	#
Mg (CH)	#	#	#	#
Mn (CH)	#	#	#	#
Na (CH)	#	#	#	#
P - Olsen (as P) (PHOS)	0.07	0.26	-0.24	0.40
SOILINST (43)				
pH - CaCl2 (SC)	0.29	-0.13	-0.57	-0.43
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	-0.79
Ca (AA)	0.64	1.05	1.05	-1.06
K (AA)	0.24	0.85	0.68	0.11
Na (AA)	-0.07	0.50	-0.42	0.02
RIOJALAB (45)				
C - elementary (RT)	-0.18	-0.16	0.12	-0.21
N - elementary (RT)	-0.02	0.76	1.38	1.42
Cd (AR)	0.77	-2.13 *	-0.11	-1.30
Cr (AR)	2.72 *	3.64 **	3.44 **	1.73
Cu (AR)	-1.07	-2.11 *	-8.84 **	-4.06 **
Hg (AR)	2.57 *	-1.64	-0.35	-1.19
Ni (AR)	0.68	1.01	0.79	1.10
Pb (AR)	2.65 *	1.34	2.44 *	1.86
Zn (AR)	0.47	0.28	0.44	-0.18
C - org others (W&B a.o.) (SC)	-0.66	-0.13	-0.08	0.14
EC-SC (ISO 11265) (SC)	-0.39	-0.38	-0.44	-0.76
Fraction < 16 µm (SC)	37.09 **	-4.65 **	-4.88 **	2.02 *
Fraction < 2 µm (SC)	2.30 *	-3.86 **	-0.24	-2.83 *
Fraction < 63 µm (SC)	16.95 **	-2.45 *	-4.37 **	-2.65 *
Fraction > 63 µm (SC)	-14.52 **	4.09 **	4.69 **	4.05 **
pH - H2O (SC)	1.51	1.54	1.82	0.27
TC=Total C (org.+inorg.) (SC)	-0.34	-0.15	-0.08	-0.21
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	-0.20
Ca (CH)	#	#	#	#
CEC (CH)	#	#	#	#
K (CH)	#	#	#	#
Mg (CH)	#	#	#	#
Na (CH)	#	#	#	#
Al (M3)	0.67	0.21	-1.09	-0.04
As (M3)	#	#	#	#
B (M3)	2.89 *	1.85	2.58 *	0.87
Ca (M3)	0.61	0.47	0.62	1.27
Cd (M3)	#	#	#	#
Cr (M3)	#	#	#	#
Cu (M3)	-1.25	-0.26	-1.17	-0.99
Fe (M3)	-0.44	-4.20 **	-1.18	-0.83
K (M3)	-0.23	-0.11	0.12	-0.19
Mg (M3)	0.78	0.78	0.86	0.78
Mn (M3)	0.29	0.15	0.23	-1.71
Na (M3)	-0.07	-0.55	0.13	-0.24
P (M3)	0.51	-0.42	-0.05	0.53
Pb (M3)	#	#	#	#
Zn (M3)	-0.51	-0.40	-0.19	-0.04
MSIRI (48)				
N (AE)	-0.28	0.39	-0.11	0.15
P (AE)	-0.10	1.16	0.74	0.73
C - org others (W&B a.o.) (SC)	-0.54	-0.84	-0.61	-1.25

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
MSIRI (48) (cont.)				
pH - H2O (SC)	-0.30	-0.47	-0.39	0.55
Ca (AA)	0.16	0.34	0.77	0.86
K (AA)	0.40	1.51	0.93	0.77
Mg (AA)	0.72	0.63	0.26	0.58
ECOSPACE (49)				
Ag (AE)	< #	< #	< #	< #
Al (AE)	0.20	0.02	0.06	0.67
As (AE)	<	0.28	<	-0.41
B (AE)	< #	< #	< #	#
Ba (AE)	0.45	0.65	0.01	1.92
Ca (AE)	0.29	0.46	-0.60	1.00
Cd (AE)	<	<	< #	<
Cr (AE)	-0.16	0.32	-0.11	0.96
Cu (AE)	<	-0.64	<	<
Fe (AE)	0.02	0.51	-0.20	0.85
Hg (AE)	<	<	<	<
K (AE)	0.42	0.93	0.52	1.28
Mg (AE)	-0.11	0.13	-0.18	0.37
Mn (AE)	0.19	0.02	-0.22	0.61
Na (AE)	< #	0.34	< #	0.82
Ni (AE)	<	0.40	<	0.48
Pb (AE)	-0.55	0.23	-0.79	-0.33
Sn (AE)	< #	< #	< #	< #
Zn (AE)	<	0.43	-0.42	-0.03
POULAIN (51)				
C - elementary (RT)	-14.29 **	-26.94 **	-57.30 **	-41.65 **
N - elementary (RT)	-13.29 **	-11.49 **	-15.89 **	-12.95 **
As (AE)	0.04	-1.75	-2.26 *	-1.88
Cd (AE)	-0.91	-3.73 **	-	-2.95 *
Cr (AE)	0.23	-0.17	0.27	-0.20
Cu (AE)	0.39	0.25	-0.24	-0.19
Ni (AE)	0.27	-1.00	-0.59	-1.03
P (AE)	-0.60	-1.97	-1.30	-1.55
Pb (AE)	1.13	0.22	2.06 *	0.32
Zn (AE)	-0.03	-1.96	-1.45	-2.51 *
pH - CaCl2 (SC)	-2.20 *	-0.87	-1.04	-1.04
TIC=Tot.Inorg C(CaCO3) (SC)	8.78 **	4.41 **	#	4.71 **
Ca (BB)	#	#	#	#
CEC (BB)	#	#	#	#
K (BB)	#	#	#	#
Mg (BB)	#	#	#	#
N - NH4 (as N) (KCL)	#	#	#	#
N - NO3 (as N) (KCL)	#	#	#	#
EXTAQS (52)				
N - elementary (RT)	0.61	-1.29	0.41	-0.97
Al (AE)	0.05	0.08	0.39	0.19
As (AE)	<	0.32	0.61	0.59
Ba (AE)	0.45	0.46	0.81	0.66
Be (AE)	< #	#	#	0.87
Ca (AE)	-0.71	-0.88	1.16	0.47
Cd (AE)	<	<	< #	<
Co (AE)	-0.45	-0.26	-0.59	0.22
Cr (AE)	0.29	0.20	0.34	0.34
Cu (AE)	-0.22	-0.05	0.04	0.19
Fe (AE)	-0.15	-0.67	-0.20	0.28
Hg (AE)	<	<	<	<
K (AE)	0.51	0.85	1.02	0.64
Mg (AE)	-0.14	-0.03	0.41	-0.22
Mn (AE)	0.32	0.02	0.73	-0.21
Mo (AE)	#	#	#	#
Na (AE)	#	0.81	#	0.61
Ni (AE)	1.00	1.25	1.41	1.09
P (AE)	0.77	0.28	0.67	0.65

(cont)

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Sample	997	863	865	962
EXTAQS (52) (cont.)				
Pb (AE)	-0.09	0.61	0.54	0.78
S (AE)	-0.81	-0.46	0.50	-0.44
Sb (AE)	#	#	#	#
Se (AE)	< #	#	< #	< #
Sn (AE)	#	#	#	#
Ti (AE)	#	#	#	#
Tl (AE)	#	#	#	#
U (AE)	#	#	#	#
V (AE)	0.58	1.64	1.03	2.39 *
Zn (AE)	0.13	0.53	0.54	0.00
TC=Total C (org.+inorg.) (SC)	-0.81	-0.09	0.87	0.05
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.19
TOC=Total Org. C (SC)	0.11	0.15	0.62	0.41
EDAFONEI (57)				
N (AE)	0.49	-0.18	-0.07	0.02
C - org others (W&B a.o.) (SC)	-0.78	-1.61	-0.91	-1.63
EC-SC (ISO 11265) (SC)	0.12	1.15	0.75	1.03
pH - H2O (SC)	0.40	0.71	0.57	0.91
TIC=Tot.Inorg C(CaCO3) (SC)	0.30	0.50	-	-
Ca (AA)	-1.36	-0.15	-1.03	-0.84
CEC (AA)	1.09	0.20	0.36	0.28
K (AA)	-0.15	-2.68 *	-1.28	-1.27
Mg (AA)	-0.64	-0.63	-1.49	-0.94
Na (AA)	0.48	0.09	-0.05	-0.17
P - Olsen (as P) (PHOS)	-1.73	-1.79	-1.15	-0.73
ISA (62)				
K (CC)	0.66	0.71	-0.25	-0.12
Mg (CC)	-0.18	-0.57	0.29	-0.17
pH - CaCl2 (SC)	-0.59	-0.13	0.01	-0.91
TIC=Tot.Inorg C(CaCO3) (SC)	<	-0.37	< #	-1.18
LRSCONTROL (63)				
Hg (RT)	0.91	0.99	0.72	0.21
N - elementary (RT)	0.33	0.53	-0.08	-0.15
Al (AR)	-0.75	-0.87	-1.49	-0.74
Ca (AR)	-0.65	-2.18 *	-1.58	-0.06
Cu (AR)	0.21	0.99	-0.32	-0.07
Fe (AR)	-1.11	-0.91	-1.46	-1.14
K (AR)	-1.17	-1.16	-0.52	-0.84
Mg (AR)	-0.98	-0.91	-0.68	-0.63
Na (AR)	-	-1.91	-0.81	0.01
Ni (AR)	-0.51	-2.30 *	-1.41	-1.20
P (AR)	-2.92 *	-2.20 *	-2.96 *	-1.73
Pb (AR)	0.89	-0.78	-0.63	-0.63
Fraction < 2 µm (SC)	-0.19	0.52	0.76	0.67
Fraction < 63 µm (SC)	-1.58	0.37	-0.26	-0.32
Fraction > 63 µm (SC)	1.44	-0.24	0.21	0.33
pH - CaCl2 (SC)	-0.73	-0.87	-1.16	0.70
pH - H2O (SC)	-0.65	0.06	0.40	1.34
pH - KCl (SC)	-0.72	-0.32	-0.50	0.97
TC=Total C (org.+inorg.) (SC)	0.63	1.41	1.41	-
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.16
TOC=Total Org. C (SC)	1.18	1.01	0.83	-
B - Hot water (OD)	#	#	#	#
Moisture-content (OD)	1.14	1.13	0.78	0.44
Ca (AA)	-0.12	0.19	-0.40	-0.96
K (AA)	-1.03	-2.72 *	-1.63	-1.21
Mg (AA)	0.15	0.67	-0.85	-1.27
Na (AA)	-0.58	-0.34	-0.27	-0.69
TCKI (64)				
Al (RT)	-0.03	0.54	-0.05	0.34
Ba (RT)	-6.31 **	1.00	-5.62 **	-1.54
Ca (RT)	0.58	0.26	-1.60	0.70

(cont)

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Sample	997	863	865	962
TCKI (64) (cont.)				
Cr (RT)	<	-0.10	0.06	0.38
F (RT)	< #	#	#	#
Fe (RT)	-0.72	-0.09	0.23	-0.09
K (RT)	-0.37	0.68	0.09	0.34
Mg (RT)	-2.38 < *	0.75	-0.10	0.62
Mn (RT)	0.33	0.60	0.52	-0.51
Na (RT)	0.39	1.55	0.57	1.00
P (RT)	-2.50 *	-1.04	-2.45 *	-1.91
Si (RT)	-0.70	0.36	0.13	0.23
Ti (RT)	0.67	0.32	0.32	0.48
V (RT)	-2.16 *	3.27 **	-1.25	0.46
Zn (RT)	42.59 **	13.47 **	37.67 **	34.10 **
Fraction < 2 µm (SC)	<	-0.35	-0.26	0.47
Fraction > 63 µm (SC)	0.98	0.46	0.33	0.30
TC=Total C (org.+inorg.) (SC)	1.42	2.48 *	4.32 **	1.38
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	2.20 *
TOC=Total Org. C (SC)	0.71	0.88	1.00	0.18
MLABTW (70)				
Al (AE)	0.85	0.45	0.89	0.21
As (AE)	<	1.67	0.66	1.16
Ba (AE)	0.54	1.37	1.65	0.87
Ca (AE)	0.96	0.99	1.56	-1.05
Cd (AE)	<	0.36	< #	<
Co (AE)	<	-0.40	-0.84	-1.56
Cr (AE)	0.34	0.67	1.00	0.56
Cu (AE)	<	0.46	<	-0.49
Fe (AE)	0.60	0.59	-0.35	-0.18
Hg (AE)	<	2.01 *	<	<
Mg (AE)	0.28	0.72	1.06	0.50
Mn (AE)	0.82	-0.23	-0.33	-0.17
N (AE)	-1.99	-0.89	-2.76 *	-2.53 *
Ni (AE)	-0.76	0.58	0.31	0.06
P (AE)	0.71	0.24	0.14	-0.49
Pb (AE)	-0.70	-0.35	-0.31	-0.41
S (AE)	0.46	0.19	-1.69	-1.55
Sn (AE)	< #	#	< #	< #
V (AE)	-0.55	1.14	1.00	0.52
Zn (AE)	0.58	0.28	-0.13	-0.66
Fraction < 16 µm (SC)	-0.24	0.20	-0.01	0.16
Fraction < 2 µm (SC)	1.45	0.11	0.55	0.66
Org.matter (L.O.I.) (SC)	-0.79	0.70	0.97	0.10
pH - CaCl2 (SC)	0.73	0.83	0.01	0.12
pH - H2O (SC)	1.06	1.01	0.57	-0.02
pH - KCl (SC)	1.75	0.72	0.57	0.89
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	0.21
ARCHIMEDES (73)				
Ag (AE)	< #	< #	-	-
As (AE)	-0.07	-0.19	-	-
Ba (AE)	-1.82	-0.83	-	-
Be (AE)	< #	< #	-	-
Cd (AE)	-0.62	-0.80	-	-
Co (AE)	<	0.77	-	-
Cr (AE)	-0.64	0.38	-	-
Cu (AE)	-0.63	-0.51	-	-
Hg (AE)	1.02	-0.14	-	-
Mo (AE)	#	#	-	-
Ni (AE)	-0.44	0.06	-	-
Pb (AE)	0.06	1.67	-	-
Sb (AE)	< #	#	-	-
Se (AE)	< #	< #	-	-
Sn (AE)	< #	#	-	-
Tl (AE)	< #	< #	-	-
V (AE)	-0.46	-0.43	-	-
Zn (AE)	-1.14	-0.65	-	-

(cont)

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Sample	997	863	865	962
ARCHIMEDES (73) (cont.)				
Fraction < 2 µm (SC)	-0.33	-0.58	-	-
Org.matter (L.O.I.) (SC)	0.16	-0.50	-	-
pH - CaCl2 (SC)	2.48 *	-4.25 **	-	-
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	-	-
TOC=Total Org. C (SC)	-1.70	-0.54	-	-
AGROCH (75)				
Cd (NA)	-0.22	-0.56	0.71	-0.60
Co (NA)	-0.68	1.03	-0.98	-0.35
Cr (NA)	-0.72	0.55	-0.08	0.26
Cu (NA)	0.15	1.62	1.31	0.86
Hg (NA)	1.00	0.81	0.77	0.85
Mo (NA)	-0.71	0.83	-0.43	#
Ni (NA)	-0.81	-0.43	-0.48	-0.51
Pb (NA)	0.31	0.09	0.44	0.64
Tl (NA)	< #	#	#	#
Zn (NA)	0.34	0.56	0.57	0.46
Cd (SN)	0.10	-1.59	-2.37 *	< #
Cu (SN)	#	0.68	< #	0.97
Ni (SN)	0.66	0.38	1.21	#
Pb (SN)	< #	< #	< #	< #
Zn (SN)	< #	-1.84	-0.63	< #
F - Total (F)	#	#	#	#
F (WS)	#	#	#	#
FEETS (76)				
Cd (NA)	1.62	2.06 *	0.71	1.04
Co (NA)	1.22	0.18	-0.64	-0.67
Cr (NA)	0.18	0.62	0.33	0.68
Cu (NA)	-2.24 *	0.39	-0.58	-0.10
Ni (NA)	0.03	0.13	-0.48	-0.78
Pb (NA)	-0.85	-1.01	-0.73	-1.66
Zn (NA)	-0.19	0.77	-0.54	-1.00
Cd (SN)	-1.76	-0.80	0.21	< #
Cu (SN)	#	-0.89	#	-0.91
Ni (SN)	-4.10 **	-11.60 **	-9.06 **	#
Pb (SN)	< #	< #	< #	< #
Zn (SN)	#	0.24	-0.63	#
AL-West (78)				
Te (RT)	#	-	-	-
Ag (AR)	< #	-	-	-
As (AR)	<	-	-	-
Ba (AR)	0.10	-	-	-
Be (AR)	<	-	-	-
Cd (AR)	-2.06 *	-	-	-
Co (AR)	1.38	-	-	-
Cr (AR)	1.50	-	-	-
Cu (AR)	-0.39	-	-	-
Hg (AR)	-0.37	-	-	-
Mo (AR)	<	-	-	-
Ni (AR)	-0.03	-	-	-
Pb (AR)	0.03	-	-	-
Sb (AR)	<	-	-	-
Se (AR)	<	-	-	-
Sn (AR)	0.66	-	-	-
Tl (AR)	< #	-	-	-
V (AR)	0.42	-	-	-
Zn (AR)	0.49	-	-	-
Fraction < 2 µm (SC)	0.10	-	-	-
Org.matter (L.O.I.) (SC)	-0.93	-	-	-
pH - CaCl2 (SC)	-0.08	-	-	-

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Sample	997	863	865	962
SAINTE-FOY (80)				
N - elementary (RT)	0.13	0.85	0.36	0.20
N (AE)	0.64	0.48	0.20	0.11
EC-SC (ISO 11265) (SC)	-1.37	-1.24	-0.80	-1.61
Org.matter (L.O.I.) (SC)	0.81	0.56	0.48	0.71
pH - CaCl2 (SC)	-2.12 *	-0.02	0.71	-1.94
pH - H2O (SC)	-0.71	0.36	0.23	-1.05
TC=Total C (org.+inorg.) (SC)	0.40	1.36	1.04	1.34
Moisture-content (OD)	0.20	-0.04	-0.28	0.16
Al (AC)	< #	< #	#	< #
Ca (AC)	#	#	#	#
Fe (AC)	#	#	#	< #
K (AC)	#	#	#	#
Mg (AC)	#	#	#	#
Mn (AC)	#	#	#	#
Al (M3)	-0.14	0.36	0.07	-0.07
B (M3)	<	<	<	0.55
Ca (M3)	0.62	2.13 *	0.14	0.81
Cu (M3)	0.30	0.55	<	0.09
Fe (M3)	-0.60	-2.55 *	-0.93	-0.58
K (M3)	1.09	0.98	0.49	0.70
Mg (M3)	-0.59	-0.04	0.12	-0.91
Mn (M3)	-0.56	0.31	0.12	-0.30
Na (M3)	-0.51	-0.14	-0.54	-0.36
P (M3)	0.08	0.41	0.27	1.04
Zn (M3)	-0.97	-0.70	-0.78	-0.78
HIDU (82)				
Ag (RT)	< #	< #	< #	< #
Al (RT)	2.43 *	-0.48	1.42	-0.22
As (RT)	0.39	-0.43	-0.04	0.10
Ba (RT)	-0.29	-0.70	0.21	-0.83
Br (RT)	<	<	<	0.41
Ca (RT)	1.16	-0.29	1.59	-0.75
Cd (RT)	<	-0.61	<	<
Ce (RT)	-2.15 *	-1.20	-1.40	-2.55 *
Cr (RT)	0.16	-0.67	-1.57	0.71
Cu (RT)	1.31	-0.10	0.51	1.65
Fe (RT)	0.37	-0.35	0.23	-0.17
Ga (RT)	<	-1.21	0.22	0.75
I (RT)	< #	< #	< #	#
K (RT)	1.32	0.23	1.47	1.04
La (RT)	0.32	-1.58	-0.25	-5.22 **
Mg (RT)	10.80 **	2.02 *	3.27 **	2.60 *
Mn (RT)	0.52	-0.30	0.16	-0.05
Mo (RT)	<	<	<	<
Nb (RT)	-0.87	-0.21	-0.33	-0.21
Ni (RT)	0.87	-1.23	0.42	-0.28
P (RT)	-1.81	-1.93	-0.81	3.22 **
Pb (RT)	2.82 *	-0.38	0.00	0.82
Rb (RT)	-0.87	-0.82	-1.08	-0.78
S (RT)	10.84 **	2.09 *	3.45 **	-0.15
Sb (RT)	1.77	-0.52	<	1.86
Si (RT)	-0.89	-2.44 *	-1.75	-1.40
Sn (RT)	-0.79	-0.23	-1.49	0.49
Sr (RT)	-0.17	-0.59	0.01	0.10
Th (RT)	<	-1.31	<	-1.27
Ti (RT)	-3.47 **	0.20	-0.17	-0.60
Tl (RT)	< #	< #	< #	< #
V (RT)	0.71	2.67 *	0.82	1.83
Y (RT)	<	-0.30	-1.01	-0.59
Zn (RT)	0.72	-0.25	0.18	-0.15
Zr (RT)	-0.76	-0.43	-0.62	-0.81
Cd (NA)	-0.68	-0.10	-1.05	0.22
Co (NA)	0.20	0.27	0.14	0.70
Cr (NA)	0.85	-0.21	-0.40	-0.33
Cu (NA)	-0.15	0.01	-1.72	0.26

(cont)

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Sample	997	863	865	962
HIDU (82) (cont.)				
Hg (NA)	1.19	2.62 *	1.40	0.74
Mo (NA)	-0.48	0.22	-0.88	< #
Ni (NA)	-0.81	0.65	-0.49	0.66
Pb (NA)	0.91	1.42	0.99	1.55
Tl (NA)	< #	#	#	#
Zn (NA)	0.47	0.19	-0.31	0.91
Cd (SN)	-0.55	0.88	1.12	< #
Cu (SN)	< #	-0.78	< #	-1.02
Ni (SN)	-0.31	-0.03	0.25	#
Pb (SN)	< #	< #	< #	< #
Zn (SN)	< #	0.90	-0.05	< #
F - Total (F)	#	#	#	#
US (83)				
Ag (AR)	#	#	#	#
Al (AR)	-5.64 **	-4.61 **	-6.92 **	-5.26 **
As (AR)	-1.55	-2.25 *	0.04	-1.46
Ba (AR)	-1.40	-5.86 **	-1.45	-1.49
Be (AR)	-1.84	-8.18 **	-1.76	-3.63 **
Ca (AR)	-2.12 *	-1.69	-1.90	-1.31
Cd (AR)	-0.88	-2.07 *	-5.49 **	-2.44 *
Co (AR)	-0.66	-5.80 **	2.37 *	-1.71
Cr (AR)	-2.40 *	-4.94 **	-4.07 **	-4.15 **
Cu (AR)	0.04	-2.99 *	0.09	-1.32
Fe (AR)	-7.04 **	-16.62 **	-16.00 **	1.63
Hg (AR)	-0.10	0.40	0.83	1.33
Mn (AR)	-2.14 *	-6.46 **	-1.68	-3.56 **
Mo (AR)	-1.17	-1.87	-1.76	-1.33
Ni (AR)	-1.72	-5.80 **	-4.66 **	-3.81 **
Pb (AR)	-0.28	-2.27 *	0.11	-1.22
Sb (AR)	-0.02	0.98	2.10 *	2.53 *
Sn (AR)	-0.11	-2.60 *	0.73	-0.18
V (AR)	-2.01 *	-4.07 **	-2.18 *	-2.76 *
Zn (AR)	-2.34 *	-7.44 **	-5.38 **	-5.99 **
Fraction < 16 µm (SC)	-0.84	0.15	0.33	-0.78
Fraction < 2 µm (SC)	-0.49	0.11	0.12	0.15
Fraction < 63 µm (SC)	0.36	0.34	0.65	0.48
Org.matter (L.O.I.) (SC)	-0.31	-0.29	-0.40	-0.23
pH - CaCl2 (SC)	-0.08	-0.13	0.13	0.44
TIC=Tot.Inorg C(CaCO3) (SC)	-0.60	-0.47	#	0.20
BRAUNSCHW (86)				
Al (AR)	0.36	-0.29	0.19	-0.48
As (AR)	-0.01	-0.07	-0.02	0.11
B (AR)	#	-0.38	#	-0.47
Be (AR)	0.65	0.44	0.27	0.57
Bi (AR)	#	#	#	#
Ca (AR)	-0.26	-2.03 *	-0.59	-1.41
Cd (AR)	-0.28	-0.08	-0.17	-0.03
Co (AR)	-0.39	-0.19	-0.55	-0.16
Cr (AR)	-0.19	0.01	0.10	0.14
Cu (AR)	0.53	-0.06	0.43	-0.21
Fe (AR)	2.96 *	2.62 *	3.04 **	1.77
K (AR)	0.06	-0.21	0.07	-0.77
Li (AR)	#	#	#	#
Mg (AR)	0.76	-0.47	0.56	-0.04
Mn (AR)	0.87	-0.39	1.10	0.23
Mo (AR)	1.12	0.65	0.83	0.50
Na (AR)	-0.63	-1.57	-0.32	-1.50
Ni (AR)	0.24	-0.15	1.11	0.53
P (AR)	2.99 *	-0.17	1.00	0.81
Pb (AR)	-0.32	-0.10	0.08	0.34
S (AR)	0.46	-2.54 *	-0.97	-0.79
Sb (AR)	-0.41	-1.35	-0.50	-0.98
Se (AR)	-0.58	-0.25	0.25	-0.13
Sn (AR)	-0.09	0.63	0.24	0.81

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
BRAUNSCHW (86) (cont.)				
Sr (AR)	0.41	-0.70	0.20	-1.96
Ti (AR)	-0.75	-0.79	-0.72	-0.98
Tl (AR)	#	-2.66 *	-1.18	-2.07 *
U (AR)	#	#	#	#
V (AR)	0.47	-0.32	0.60	0.06
Zn (AR)	0.59	-2.23 *	0.39	-0.42
DATE (89)				
Al (AE)	0.17	0.76	0.27	0.06
As (AE)	-1.10	-1.29	-0.71	-2.41 *
B (AE)	#	#	#	#
Ba (AE)	1.11	-0.27	-0.43	-0.19
Be (AE)	#	#	#	0.45
Ca (AE)	0.57	-0.67	0.43	0.18
Co (AE)	-0.64	-0.85	0.65	0.58
Cr (AE)	0.36	0.25	0.20	0.00
Cu (AE)	0.36	0.56	0.72	0.47
Fe (AE)	3.13 **	1.34	0.75	-0.03
K (AE)	0.93	0.92	1.00	0.62
La (AE)	#	#	#	#
Li (AE)	#	#	#	#
Mg (AE)	0.86	0.30	0.46	-0.50
Mn (AE)	0.32	-0.69	0.06	0.14
Na (AE)	#	0.81	#	0.57
Ni (AE)	-0.94	0.09	-0.11	1.71
P (AE)	-0.27	-0.04	-0.30	-0.03
Pb (AE)	-0.85	0.02	0.27	-0.32
S (AE)	0.11	-0.99	0.93	-0.46
Sr (AE)	#	#	#	#
V (AE)	1.44	0.06	0.21	-0.26
Zn (AE)	1.23	0.11	0.41	0.33
C - org others (W&B a.o.) (SC)	0.55	1.32	0.18	0.81
pH - H2O (SC)	1.81	-0.12	-1.01	0.20
pH - KCl (SC)	2.04 *	0.20	0.16	-0.30
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.08
N - NH4 (as N) (KCL)	#	#	#	#
N - NO3 (as N) (KCL)	#	#	#	#
BKLABOR (92)				
Al (RT)	-0.03	0.67	0.00	0.24
Ca (RT)	-0.41	0.50	-0.27	0.31
Fe (RT)	-0.25	-0.13	-0.54	-0.25
K (RT)	0.16	0.74	-0.21	0.38
Mg (RT)	-0.54	0.00	-0.11	-0.04
Mn (RT)	-0.05	0.41	-0.11	0.31
Na (RT)	-0.80	-1.32	-1.64	-0.67
P (RT)	0.63	0.51	-0.11	0.58
Si (RT)	0.05	0.36	0.73	0.44
Ti (RT)	0.74	-0.55	-0.81	-0.57
Zr (RT)	0.41	-0.28	0.47	0.26
GAL (95)				
Al (RT)	-0.35	0.20	-0.11	-0.59
As (RT)	-	-0.06	-1.34	-0.30
B (RT)	#	#	#	#
Ba (RT)	0.50	0.21	-0.18	0.19
Be (RT)	#	#	#	#
Br (RT)	0.13	0.49	0.29	0.64
Ca (RT)	-	0.50	-	0.25
Ce (RT)	-0.12	-0.02	0.11	-0.03
Cr (RT)	-0.37	0.02	0.78	-0.29
Cu (RT)	-	-0.21	-	-0.67
Fe (RT)	0.25	0.90	0.08	-0.01
Ga (RT)	-	0.03	-0.17	1.29
Hg (RT)	0.65	0.38	-0.21	0.44
K (RT)	-1.29	0.63	-0.80	0.47

(cont)

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Sample	997	863	865	962
GAL (95) (cont.)				
La (RT)	0.54	-0.26	0.61	0.26
Li (RT)	#	#	#	#
Mg (RT)	-	0.38	-0.39	-0.48
Mn (RT)	0.23	-0.46	-0.97	-1.55
N - elementary (RT)	1.24	0.08	-1.90	0.51
Na (RT)	0.10	-1.60	-1.54	-1.28
Nb (RT)	-	-0.18	0.13	-0.41
Ni (RT)	-	-0.25	0.14	0.31
P (RT)	1.07	0.72	0.99	0.12
Pb (RT)	0.05	0.27	0.82	-0.21
Rb (RT)	0.02	-0.44	-0.72	0.02
S (RT)	-	-	-	0.46
Sc (RT)	-0.74	-0.39	-2.43 *	-1.37
Si (RT)	0.23	0.25	0.57	0.37
Sn (RT)	-	0.58	-	0.08
Sr (RT)	0.18	0.00	0.28	0.39
Ti (RT)	-0.15	0.74	-0.54	-0.05
V (RT)	-0.40	-0.35	-1.08	0.46
Y (RT)	-0.01	0.58	-0.02	0.27
Zn (RT)	0.27	0.08	0.42	-0.18
Zr (RT)	0.26	0.13	-0.06	-0.31
TC=Total C (org.+inorg.) (SC)	-0.33	0.79	-0.94	-0.88
TOC=Total Org. C (SC)	-0.59	-0.70	-1.42	-0.51
POLASP (96)				
Al (RT)	-1.91	-3.79 **	-1.09	-0.74
C - elementary (RT)	0.72	-1.11	-3.57 **	-15.14 **
Ca (RT)	0.69	3.51 **	1.05	3.39 **
Cd (RT)	-0.31	-0.04	0.53	0.46
Co (RT)	0.69	0.75	1.17	0.48
Cr (RT)	-1.34	0.44	-0.32	-1.15
Cu (RT)	-0.10	0.88	0.24	0.40
Fe (RT)	-0.08	0.97	1.36	0.79
Hg (RT)	-0.60	-1.05	-1.42	-1.26
K (RT)	1.75	3.07 **	2.55 *	-28.30 **
Mg (RT)	0.09	1.00	1.19	1.36
Mn (RT)	-0.15	0.96	0.78	0.79
N - elementary (RT)	0.45	1.65	1.30	-0.11
Na (RT)	1.01	1.28	1.60	1.17
Ni (RT)	0.16	1.49	1.44	0.92
P (RT)	0.27	0.84	0.58	0.44
Pb (RT)	0.70	1.06	0.65	-0.07
Zn (RT)	-0.24	0.16	0.74	-0.24
As (AE)	0.82	1.83	1.31	1.11
Se (AE)	#	#	#	#
GGM (98)				
Ag (AE)	< #	< #	< #	< #
As (AE)	-0.14	0.07	-0.32	-0.31
Ba (AE)	-0.35	0.58	-0.55	-0.18
Be (AE)	#	#	#	-1.50
Cd (AE)	0.22	-0.12	#	0.19
Co (AE)	<	-1.45	-1.12	-1.46
Cr (AE)	0.28	-0.86	-0.60	-0.65
Cu (AE)	<	-1.98	<	-2.72 *
Hg (AE)	0.49	0.60	0.35	0.83
Mo (AE)	< #	< #	< #	< #
Ni (AE)	-0.22	-0.45	-0.89	-0.66
Pb (AE)	0.46	0.80	0.47	0.84
Sb (AE)	< #	< #	< #	< #
Se (AE)	< #	< #	< #	< #
Sn (AE)	< #	< #	< #	< #
Tl (AE)	< #	< #	< #	< #
Zn (AE)	-1.26	-1.26	-2.25 *	-2.06 *
Fraction < 2 µm (SC)	0.15	-0.60	-0.18	-0.27
Org.matter (L.O.I.) (SC)	2.69 *	3.45 **	3.48 **	2.57 *

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Sample	997	863	865	962
974BRET (99)				
N - elementary (RT)	-2.63 *	-1.32	-1.43	-4.73 **
pH - H2O (SC)	-0.91	-0.12	-0.22	0.34
pH - KCl (SC)	-1.15	-0.83	-0.91	-0.15
TOC=Total Org. C (SC)	-10.11 **	-11.80 **	-11.26 **	-
Ca (CH)	#	#	#	#
CEC (CH)	#	#	#	#
K (CH)	#	#	#	#
Mg (CH)	#	#	#	#
Na (CH)	#	#	#	#
CORBANA (110)				
C - org others (W&B a.o.) (SC)	0.59	0.05	0.77	0.36
pH - H2O (SC)	-0.65	0.06	1.14	0.23
Al (M3)	-1.19	-0.12	1.62	-3.80 **
Ca (M3)	-0.72	-1.13	-0.78	-0.05
Cu (M3)	0.76	0.85	1.01	0.65
Fe (M3)	-2.71 *	0.71	1.18	-0.10
K (M3)	-1.19	-0.81	-0.71	-0.86
Mg (M3)	-0.94	-0.67	-0.73	-0.69
Mn (M3)	-1.15	0.09	-0.69	1.25
P (M3)	-2.70 *	0.10	0.69	-2.21 *
Zn (M3)	-0.38	1.10	0.57	0.55
CISCA (112)				
Ag (AE)	< #	< #	-	-
Al (AE)	-0.34	-0.23	-	-
As (AE)	0.36	0.34	0.40	0.40
Ba (AE)	-0.21	-0.08	-0.62	0.03
Be (AE)	< #	#	< #	-0.53
Ca (AE)	-0.09	-0.14	-	-
Cd (AE)	0.22	0.01	< #	0.24
Co (AE)	<	0.52	0.42	0.73
Cr (AE)	0.79	0.43	0.04	0.32
Cu (AE)	-0.34	-0.49	0.17	-0.06
Fe (AE)	0.71	-0.17	-	-
Hg (AE)	0.50	0.05	0.01	-0.40
K (AE)	0.16	0.27	-	-
Mg (AE)	0.34	0.07	-	-
Mn (AE)	0.78	0.25	-	-
Mo (AE)	< #	< #	#	< #
Na (AE)	#	-0.02	-	-
Ni (AE)	0.50	0.29	0.29	0.47
P (AE)	3.03 **	2.15 *	-	-
Pb (AE)	0.12	0.30	-0.50	0.53
S (AE)	2.72 *	8.67 **	-	-
Sb (AE)	< #	< #	< #	< #
Se (AE)	< #	#	< #	#
Sn (AE)	< #	#	< #	< #
Ti (AE)	#	#	-	-
Tl (AE)	< #	< #	-	-
V (AE)	0.48	-0.34	-0.54	-0.01
Zn (AE)	-0.13	-0.26	-0.55	-0.54
EC-SC (ISO 11265) (SC)	-0.83	-0.47	0.61	-0.01
Fraction < 16 µm (SC)	0.29	-	-	-
Fraction < 2 µm (SC)	3.16 **	-	-0.14	0.31
Fraction < 63 µm (SC)	-0.31	-	-	-
Org.matter (L.O.I.) (SC)	-0.38	0.36	-0.20	-0.16
pH - CaCl2 (SC)	-	-	-3.73 **	-1.68
pH - KCl (SC)	0.73	1.41	-	-
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.01
TOC=Total Org. C (SC)	-0.81	-0.69	-0.60	-1.02
SIRI (119)				
K (CC)	1.27	0.67	0.14	0.70
Mg (CC)	-3.00 **	-3.32 **	-1.28	-1.35
P (CC)	#	#	#	#

(cont)

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Sample	997	863	865	962
SIRI (119) (cont.)				
EC-SC (ISO 11265) (SC)	-0.83	0.99	0.81	2.50 *
pH - CaCl2 (SC)	0.07	-0.13	0.60	1.21
pH - H2O (SC)	0.30	0.53	0.74	1.59
Ca (AA)	-0.77	-1.17	0.15	-1.16
CEC (AA)	9.06 **	4.03 **	4.26 **	4.83 **
K (AA)	-4.00 **	-1.41	-3.50 **	-1.42
Mg (AA)	2.76 *	1.41	0.87	3.15 **
UAK MARDI (120)				
N (AE)	1.61	1.18	1.03	1.06
pH - H2O (SC)	0.65	0.95	1.08	-1.05
Ca (AA)	0.36	-0.08	0.80	-0.31
CEC (AA)	-0.60	0.09	-0.15	0.05
K (AA)	1.50	2.42 *	-0.02	1.16
Mg (AA)	-0.04	-0.32	-0.05	-0.30
Na (AA)	3.03 **	1.72	2.52 *	1.15
P - Bray (as P) (PHOS)	0.15	1.15	-0.33	1.34
VICTORY (123)				
Al (RT)	-0.35	0.38	0.31	0.10
Ba (RT)	0.50	1.72	4.14 **	0.47
Be (RT)	#	#	#	#
Ca (RT)	1.85	1.55	1.70	0.20
Cd (RT)	-0.31	-0.32	0.22	-0.66
Ce (RT)	0.56	2.09 *	1.27	1.82
Co (RT)	4.79 **	0.18	5.05 **	1.58
Cr (RT)	-0.86	4.70 **	-1.93	-0.79
Cu (RT)	-0.67	-0.90	-0.75	-1.31
Fe (RT)	0.91	0.47	1.88	0.22
Ga (RT)	-0.88	2.44 *	1.70	-2.30 *
Hg (RT)	0.65	-1.03	-0.67	-0.31
K (RT)	-0.45	0.51	1.01	0.56
La (RT)	0.27	3.04 **	1.42	2.16 *
Li (RT)	#	#	#	#
Mg (RT)	-1.43	2.02 *	-0.30	1.30
Mn (RT)	-2.09 *	0.52	0.90	-0.17
Mo (RT)	1.17	-0.13	0.10	0.02
Na (RT)	-0.81	1.17	0.71	-0.67
Nb (RT)	-0.10	1.94	2.10 *	3.79 **
Nd (RT)	0.34	1.66	0.64	1.25
Ni (RT)	-1.04	-1.64	-0.55	-1.06
P (RT)	-0.38	-0.04	-0.39	-0.18
Pb (RT)	-0.09	-1.24	0.10	1.19
Rb (RT)	3.16 **	4.69 **	3.95 **	5.02 **
S (RT)	48.34 **	-0.43	-0.56	1.04
Sb (RT)	-0.76	-0.01	-0.17	-0.16
Sc (RT)	0.21	-0.33	0.33	1.78
Si (RT)	-0.20	-0.59	-0.47	0.02
Sr (RT)	2.02 *	4.52 **	1.97	2.67 *
Th (RT)	1.06	2.15 *	1.40	2.35 *
Ti (RT)	0.90	2.42 *	1.34	1.51
U (RT)	1.30	1.97	1.38	1.74
V (RT)	-1.12	-1.19	-0.38	-1.53
W (RT)	1.55	2.02 *	1.65	3.20 **
Y (RT)	0.28	5.93 **	0.40	3.14 **
Zn (RT)	2.02 *	-0.81	1.49	1.55
Zr (RT)	1.94	3.00 *	4.86 **	2.52 *
As (AR)	32.67 **	6.72 **	11.46 **	57.57 **
Ba (AR)	1.57	0.54	-0.40	-0.68
Be (AR)	-0.27	0.78	-0.91	-1.43
Cd (AR)	-1.31	-1.27	0.26	1.31
Co (AR)	1.11	-1.50	0.49	-0.70
Cr (AR)	0.04	-3.15 **	-3.92 **	-2.93 *
Cu (AR)	0.75	0.48	-3.25 **	-1.03
Li (AR)	#	#	#	#
Ni (AR)	-2.10 *	-2.47 *	-4.26 **	-2.37 *

(cont)

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Sample	997	863	865	962
VICTORY (123) (cont.)				
Pb (AR)	1.14	0.98	0.96	0.81
Sb (AR)	<	11.03 **	<	<
Sc (AR)	#	#	#	#
Sr (AR)	-0.49	-0.98	-0.42	0.21
V (AR)	4.71 **	-1.22	-1.96	-1.84
Zn (AR)	0.26	-1.90	-4.91 **	0.11
Org.matter (L.O.I.) (SC)	0.44	0.28	0.70	-0.11
TC=Total C (org.+inorg.) (SC)	-1.17	0.55	-0.29	0.87
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	<#	-1.73
TOC=Total Org. C (SC)	-0.16	0.51	0.18	1.91
ELAEIS.S (130)				
C - org others (W&B a.o.) (SC)	0.75	-0.03	0.04	0.09
pH - H2O (SC)	-1.16	-5.02 **	-0.67	-0.91
Ca (AA)	0.15	1.12	0.42	-0.28
CEC (AA)	-0.34	-0.08	-0.57	-0.12
K (AA)	-0.70	0.42	-0.02	-0.33
Mg (AA)	-0.38	0.65	0.26	-0.09
Na (AA)	-0.48	-0.04	-0.42	-0.47
P - Bray (as P) (PHOS)	0.77	2.00 *	3.10 **	2.11 *
BCIMUZPOL (132)				
Cu (AE)	3.24 **	-0.54	5.17 **	2.80 *
Fe (AE)	6.46 **	3.82 **	1.28	4.03 **
K (AE)	2.86 *	6.61 **	6.84 **	-1.03
Li (AE)	#	#	#	#
Mg (AE)	-1.76	-2.80 *	-1.90	-0.06
Mn (AE)	-2.54 *	-3.93 **	-4.34 **	-3.27 **
N (AE)	2.89 *	2.89 *	2.91 *	1.93
Na (AE)	#	15.38 **	#	7.66 **
P (AE)	0.31	0.62	0.93	0.75
Zn (AE)	-0.30	-2.06 *	-1.88	-1.98
K (CC)	0.32	-0.30	-3.73 **	-1.95
Mg (CC)	-3.33 **	-5.47 **	-1.69	-2.03 *
Mn (CC)	#	#	#	#
N - NH4 (as N) (CC)	6.05 **	0.71	1.96	1.67
N - NO3 (as N) (CC)	-0.32	-0.28	5.31 **	-0.32
N total soluble (CC)	#	#	#	#
P (CC)	#	#	#	#
Zn (CC)	#	#	#	#
Org.matter (L.O.I.) (SC)	1.72	-0.58	0.36	0.23
pH - CaCl2 (SC)	1.97	4.11 **	10.31 **	-2.59 *
pH - H2O (SC)	0.40	-0.65	-0.16	-1.87
pH - KCl (SC)	0.22	-0.32	-0.25	-1.42
TOC=Total Org. C (SC)	0.31	0.50	-0.10	3.86 **
LABVAL (133)				
C - elementary (RT)	0.53	0.91	1.30	0.68
N - elementary (RT)	-0.82	-0.46	-0.32	0.51
Al (AE)	-1.82	-1.15	-0.50	-1.29
Ca (AE)	-1.28	-0.99	-0.89	0.41
Cd (AE)	-0.68	-2.00	<#	-1.26
Cr (AE)	-1.34	-1.81	-0.20	-1.59
Cu (AE)	-0.34	0.05	0.05	0.06
Fe (AE)	-0.74	-1.24	-0.76	-0.85
K (AE)	-0.61	-0.71	-0.03	-0.42
Mg (AE)	-1.97	-1.67	-0.47	-4.46 **
Mn (AE)	-0.47	-0.77	-0.54	-0.64
Na (AE)	#	-0.75	#	-0.60
Ni (AE)	-0.30	-1.56	0.14	-1.35
P (AE)	0.01	-0.50	0.02	-0.17
Pb (AE)	-0.32	-0.66	-0.47	-0.76
S (AE)	0.22	-0.87	-0.36	0.16
Zn (AE)	-0.66	-0.63	0.43	-0.42
pH - CaCl2 (SC)	0.14	0.93	1.18	0.38

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Sample	997	863	865	962
CPH340XYC (134)				
C - elementary (RT)	1.05	-1.73	-0.58	-0.78
N - elementary (RT)	0.61	0.05	-0.27	-0.19
As (AR)	-0.67	-0.70	-1.18	-0.77
Ba (AR)	-0.52	-1.95	-0.70	-0.61
Be (AR)	1.05	0.61	-0.01	0.64
Ca (AR)	0.37	-0.02	-0.13	0.92
Cd (AR)	2.60 *	0.53	0.89	0.36
Co (AR)	-0.84	-1.12	-0.68	0.02
Cr (AR)	-0.54	-0.99	-1.61	-0.71
Cu (AR)	-0.02	0.45	-0.04	0.10
Fe (AR)	-0.06	0.41	-0.25	-0.36
Hg (AR)	1.24	0.21	0.62	0.33
Mg (AR)	-1.00	-1.35	-1.66	-0.58
Mn (AR)	1.24	0.56	0.85	0.44
Mo (AR)	1.37	0.92	1.19	0.62
Ni (AR)	1.56	-1.14	-0.36	-0.51
P (AR)	1.44	0.24	0.53	0.63
Pb (AR)	-0.47	0.80	0.49	-
S (AR)	1.32	0.27	0.20	0.57
Sb (AR)	0.32	0.81	0.25	0.30
Se (AR)	0.04	-0.08	-0.39	-0.14
Tl (AR)	#	-0.26	0.07	0.09
Zn (AR)	-0.05	0.25	0.06	0.21
TOC=Total Org. C (SC)	1.19	-0.96	-0.41	-0.17
XGCALAFIGA (135)				
N - elementary (RT)	-0.10	0.69	0.99	1.22
EC-SC (ISO 11265) (SC)	-0.29	-0.53	-0.54	-0.67
Org.matter (L.O.I.) (SC)	-0.69	-0.94	-0.77	-0.62
pH - H2O (SC)	-0.10	0.42	0.57	0.70
pH - KCl (SC)	0.22	0.29	0.16	0.28
TC=Total C (org.+inorg.) (SC)	-0.31	0.49	0.37	-0.06
Moisture-content (OD)	-0.05	0.73	1.02	0.82
Ca (AA)	-0.17	0.28	0.31	1.01
K (AA)	-0.15	0.05	0.30	-0.33
Mg (AA)	-0.04	0.18	0.36	0.14
Na (AA)	-0.48	-0.04	-0.42	-0.32
P - Olsen (as P) (PHOS)	0.06	0.22	-0.52	0.02
HHAFU (136)				
Ag (AR)	< #	< #	< #	< #
As (AR)	-0.55	0.67	1.25	0.26
Ba (AR)	-0.63	0.54	-0.03	0.02
Be (AR)	-0.35	0.53	1.30	0.51
Ca (AR)	0.76	0.91	0.72	0.79
Cd (AR)	-0.10	0.29	<	-0.28
Co (AR)	0.10	0.56	0.13	0.37
Cr (AR)	0.24	0.40	-0.16	-0.43
Cu (AR)	1.16	1.03	3.94 **	0.15
Fe (AR)	-0.16	1.22	0.32	0.75
Hg (AR)	-0.06	0.19	0.18	0.07
K (AR)	0.03	0.54	-0.05	0.44
Mg (AR)	-4.56 **	-0.32	-1.42	-0.26
Mn (AR)	0.21	0.64	0.40	0.61
Mo (AR)	0.28	-0.40	0.37	0.91
Na (AR)	<	-0.15	-0.87	-1.42
Ni (AR)	0.85	0.67	1.08	-0.09
P (AR)	-0.11	1.65	1.17	0.50
Pb (AR)	0.21	0.69	0.30	0.10
S (AR)	1.20	2.69 *	1.68	0.88
Sb (AR)	<	<	<	<
Se (AR)	<	<	<	<
Sn (AR)	11.76 **	32.46 **	9.95 **	5.94 **
Sr (AR)	<	0.89	0.97	2.93 *
Ti (AR)	0.54	0.31	0.55	0.48
V (AR)	-1.31	0.80	0.05	0.15

(cont)

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Sample	997	863	865	962
HHAFU (136) (cont.)				
Zn (AR)	0.31	1.24	0.84	0.73
EC-SC (ISO 11265) (SC)	1.63	0.81	0.25	3.11 **
Org.matter (L.O.I.) (SC)	-0.31	0.19	0.11	-0.04
pH - CaCl2 (SC)	1.90	3.79 **	5.63 **	2.18 *
pH - H2O (SC)	0.86	1.54	2.11 *	1.73
TOC=Total Org. C (SC)	-1.23	-0.96	-1.20	-0.71
KEMIRAKEMI (140)				
Ag (RT)	-	-	-	#
Al (RT)	-0.11	1.32	0.76	0.94
As (RT)	3.02 **	0.18	0.76	-1.63
Ba (RT)	0.05	0.76	0.60	0.62
Bi (RT)	#	#	#	#
Br (RT)	-0.25	-0.47	-0.97	-0.45
Ca (RT)	-1.43	-0.60	-0.85	0.42
Cd (RT)	-	-	-	0.84
Ce (RT)	0.83	0.65	0.56	0.00
Co (RT)	-1.35	5.39 **	5.25 **	5.03 **
Cr (RT)	0.05	0.64	0.11	0.33
Cs (RT)	-	-3.79 **	-10.89 **	-0.55
Cu (RT)	0.35	-1.03	-0.27	-1.54
Fe (RT)	0.15	0.91	0.89	1.02
Ga (RT)	0.57	-0.31	0.13	0.22
Ge (RT)	#	#	#	#
I (RT)	#	#	#	#
K (RT)	0.40	0.88	0.47	0.56
La (RT)	6.86 **	-1.75	-0.66	0.98
Mg (RT)	-0.75	-0.70	-0.51	0.05
Mn (RT)	3.42 **	0.96	1.38	1.80
Mo (RT)	5.27 **	0.68	1.34	2.12 *
Na (RT)	-1.23	-2.17 *	-2.22 *	-1.07
Nb (RT)	-0.30	0.43	0.33	0.76
Nd (RT)	-3.02 **	-0.01	-1.74	-1.33
Ni (RT)	-0.16	0.47	1.39	0.61
P (RT)	-1.20	-0.59	-1.78	-1.70
Pb (RT)	1.22	0.42	1.74	0.46
Rb (RT)	0.55	-0.67	-0.66	-0.59
Sc (RT)	9.90 **	-0.55	9.76 **	5.28 **
Se (RT)	#	4.39 **	#	#
Si (RT)	0.93	1.31	2.12 *	1.69
Sn (RT)	0.56	-2.48 *	-	-1.52
Sr (RT)	0.00	-0.57	-0.20	-0.03
Te (RT)	#	#	#	#
Th (RT)	60.03 **	12.95 **	28.68 **	20.38 **
Ti (RT)	-4.11 **	-0.23	-1.71	-0.75
U (RT)	33.04 **	18.69 **	16.79 **	25.19 **
V (RT)	3.21 **	0.35	0.65	0.87
W (RT)	1.55	-3.02 **	0.94	-3.56 **
Y (RT)	-0.01	1.52	0.73	1.41
Zn (RT)	-1.54	-0.69	-1.18	-1.75
Zr (RT)	-0.53	-0.55	-1.38	-0.55
TYRKEY (145)				
Al (RT)	-1.11	-1.07	-0.56	-2.33 *
Ca (RT)	-2.19 *	-6.32 **	-1.38	-19.45 **
Cd (RT)	-0.41	0.09	-0.64	-1.35
Co (RT)	<	-2.66 *	-2.74 *	-2.40 *
Cr (RT)	-2.02 *	-4.64 **	-4.06 **	-1.43
Cu (RT)	1.45	-0.63	1.59	0.03
F (RT)	< #	#	#	#
Fe (RT)	-0.18	-1.52	-1.97	-1.99
Hg (RT)	-0.33	-6.20 **	2.13 *	1.55
K (RT)	1.25	0.41	0.85	0.86
Mg (RT)	5.47 **	0.84	2.78 *	-0.04
Mn (RT)	-0.53	-1.54	-1.03	0.09
Na (RT)	0.89	1.36	0.68	2.72 *

(cont)

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Sample	997	863	865	962
TYRKEY (145) (cont.)				
Ni (RT)	-1.19	-3.10 **	-3.05 **	-2.83 *
Pb (RT)	-1.65	-1.24	-0.27	1.15
Si (RT)	-0.70	-0.02	-0.47	-0.82
Ti (RT)	-1.65	4.97 **	0.16	-0.93
Zn (RT)	-1.11	-1.22	-0.62	-0.56
Cd (AE)	-0.62	-0.60	#	-0.22
Co (AE)	<	-0.96	-0.87	-0.78
Cr (AE)	1.21	-0.49	-0.67	-0.23
Cu (AE)	2.26 *	1.87	4.60 **	1.36
Mn (AE)	-0.34	-0.06	-0.08	1.02
Ni (AE)	0.13	-0.63	-0.70	-0.49
P (AE)	-0.74	-0.01	-0.99	0.55
Pb (AE)	-2.68 *	0.41	-1.80	-0.30
S (AE)	-1.89	4.60 **	-8.35 **	-2.25 *
Zn (AE)	-0.62	0.37	-0.28	0.64
GROTHE_XRF (149)				
Al (RT)	0.03	0.58	0.19	0.28
As (RT)	<	3.01 **	2.35 *	0.96
Ba (RT)	-0.09	0.37	-1.02	-0.96
Bi (RT)	< #	< #	< #	< #
Ca (RT)	0.02	0.40	-0.01	0.30
Ce (RT)	<	-0.19	<	2.02 *
Cr (RT)	-1.46	-0.26	-1.39	-0.51
Fe (RT)	-0.26	0.08	-0.15	0.02
Ga (RT)	5.71 **	0.72	3.11 **	4.89 **
K (RT)	-0.13	0.20	-0.23	-0.37
Mg (RT)	-0.14	0.05	0.00	0.01
Mn (RT)	-0.63	0.88	-0.10	1.34
Mo (RT)	<	<	<	<
Na (RT)	-0.25	-0.73	-0.98	-0.34
Nb (RT)	1.57	0.42	1.88	1.54
Nd (RT)	<	1.02	<	3.18 **
Ni (RT)	<	-3.45 **	<	-3.95 **
P (RT)	0.26	0.44	0.43	0.21
Pb (RT)	-1.05	-0.09	-0.39	-0.70
Rb (RT)	-0.37	0.46	0.20	0.42
Sc (RT)	<	-1.04	<	-0.66
Si (RT)	0.35	0.19	0.83	0.50
Sn (RT)	<	<	<	<
Sr (RT)	1.40	0.15	0.37	-0.03
Th (RT)	<	1.84	<	<
Ti (RT)	0.36	0.74	0.18	0.43
U (RT)	<	<	<	<
V (RT)	0.66	-0.45	-0.56	-0.36
Y (RT)	2.11 *	0.20	0.87	0.00
Zn (RT)	<	-0.10	-1.53	-1.12
Zr (RT)	0.64	-0.53	-0.56	-0.33
MELILAB (157)				
Ca (AE)	-0.43	-0.14	-0.31	-0.54
Cd (AE)	-0.10	0.53	< #	0.11
Co (AE)	-0.64	-0.26	-0.20	-0.23
Cr (AE)	-0.29	0.78	1.23	0.53
Cu (AE)	-0.17	0.00	-0.04	0.12
Fe (AE)	-0.11	0.28	-0.88	0.22
Mg (AE)	0.14	1.38	1.33	1.09
Mn (AE)	-0.01	0.02	-0.54	0.20
Ni (AE)	-0.30	0.05	0.09	-0.22
P (AE)	-0.79	0.30	-0.03	-0.21
Pb (AE)	-0.17	-1.14	0.22	0.45
S (AE)	-0.17	0.35	-0.36	0.16
Zn (AE)	-0.03	-0.21	0.33	-0.06

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Sample	997	863	865	962
MERLIN (159)				
As (AE)	<	-0.53	<	<
Cd (AE)	0.11	0.20	< #	<
Co (AE)	<	-2.12 *	-1.07	-2.13 *
Cr (AE)	-0.20	-0.50	-0.78	-1.17
Cu (AE)	<	-0.25	<	0.26
Hg (AE)	-0.76	-1.37	-0.09	-1.02
Ni (AE)	<	-0.74	<	-1.17
Pb (AE)	0.29	-1.19	-0.09	-1.84
Zn (AE)	0.13	-0.80	-0.51	-0.55
Cd (NA)	0.70	-0.87	-2.81 < *	-0.60
Co (NA)	0.35	-1.65	-0.64	-1.43
Cr (NA)	-0.23	-0.99	-0.96	-0.86
Cu (NA)	-0.53	-1.45	-0.50	-0.85
Hg (NA)	-1.26	1.88	0.87	1.36
Ni (NA)	0.53	-1.31	-0.75	-1.21
Pb (NA)	0.04	0.10	1.37	-0.77
Zn (NA)	-0.47	-1.61	-1.24	-0.39
Cd (SN)	-0.03	-3.01 **	-8.07 **	< #
Cu (SN)	#	1.14	< #	0.60
Ni (SN)	0.63	-0.44	-1.03	< #
Pb (SN)	< #	< #	< #	< #
Zn (SN)	< #	-0.19	0.20	< #
CHECKSOL (161)				
Cd (NA)	-0.45	-0.59	0.85	0.29
Cr (NA)	0.15	-0.32	0.00	-0.23
Cu (NA)	0.36	0.48	0.22	0.09
Ni (NA)	0.42	-0.64	0.29	-0.39
Pb (NA)	0.42	-0.27	0.08	0.10
Zn (NA)	-0.19	-0.91	-0.70	-0.70
BODEN ZH (162)				
Cd (NA)	-0.59	-0.51	-1.02	-1.17
Co (NA)	-0.71	0.40	0.01	0.77
Cr (NA)	-0.55	0.87	0.72	1.10
Cu (NA)	-1.73	0.72	0.52	0.60
Hg (NA)	-1.62	-0.38	-0.64	-0.74
Mo (NA)	-0.73	<	-0.55	< #
Ni (NA)	-0.08	1.77	0.88	1.32
Pb (NA)	-0.81	0.67	-0.33	0.32
Zn (NA)	-0.59	0.80	0.55	0.99
Cd (SN)	-2.19 *	0.12	-1.12	< #
Cu (SN)	#	0.71	< #	0.63
Ni (SN)	0.48	4.01 **	2.52 *	#
Pb (SN)	< #	< #	< #	< #
Zn (SN)	#	1.27	1.51	< #
ETMKK (166)				
pH - KCl (SC)	-0.86	-0.15	0.08	-0.69
Ca (M3)	-0.19	-0.38	-0.42	0.59
Cu (M3)	-1.07	-1.57	-0.62	0.06
K (M3)	0.50	0.11	0.14	-0.02
Mg (M3)	-0.49	-0.70	-0.54	-0.75
Mn (M3)	2.46 *	2.32 *	0.71	3.55 **
P (M3)	0.73	-1.64	-0.12	-1.44
NSSL (167)				
N - elementary (RT)	8.66 **	1.97	3.40 **	4.43 **
Fraction < 2 µm (SC)	0.07	0.62	0.66	1.09
pH - CaCl2 (SC)	-0.59	-0.13	0.01	-0.27
pH - H2O (SC)	-0.71	0.36	0.40	-0.23
TC=Total C (org.+inorg.) (SC)	4.74 **	2.09 *	2.43 *	1.28
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	0.21
Ca (AA)	0.96	1.13	0.91	1.57
CEC (AA)	0.09	0.37	0.32	0.18
K (AA)	9.20 **	3.69 **	5.69 **	1.40

(cont)

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Sample	997	863	865	962
NSSL (167) (cont.)				
Mg (AA)	0.13	0.55	0.05	0.79
P (M3)	-1.83	-1.67	-1.47	-1.52
P - Bray (as P) (PHOS)	0.78	0.10	-0.44	-0.74
P - Olsen (as P) (PHOS)	0.61	1.20	-1.44	1.04
PLATINA222 (172)				
K (RT)	-0.98	-1.18	-0.53	-1.21
P (RT)	-0.62	-0.26	1.15	1.44
As (AE)	-0.34	-0.49	-0.65	-0.34
Cd (AE)	-0.72	-0.25	< #	<
Cu (AE)	-0.62	-2.12 *	-0.96	-0.42
Hg (AE)	3.98 **	1.51	3.01 **	5.95 **
Ni (AE)	-1.01	-0.23	-1.23	-0.17
Pb (AE)	-2.61 *	0.20	-2.37 *	-1.05
Zn (AE)	0.21	-8.32 **	-0.22	0.12
C - org others (W&B a.o.) (SC)	0.98	0.56	1.03	0.60
pH - H2O (SC)	-0.86	-0.65	-0.56	-0.12
Ca (AA)	0.36	-0.02	-0.18	-0.29
CEC (AA)	0.39	1.91	2.36 *	2.19 *
K (AA)	0.95	-0.13	0.30	-0.09
Mg (AA)	0.89	0.40	0.67	0.18
Na (AA)	-0.16	0.36	-0.05	-0.17
P - Olsen (as P) (PHOS)	3.76 **	2.89 *	1.60	2.89 *
RISWC (174)				
Hg (RT)	0.08	-1.22	-1.18	-2.37 *
N - elementary (RT)	-0.26	-1.71	-1.69	-0.43
As (AR)	-1.13	-0.90	0.06	-0.87
Cd (AR)	1.70	-0.79	-0.99	0.04
Co (AR)	0.17	2.13 *	0.58	0.35
Cr (AR)	-0.87	1.54	-0.08	1.03
Cu (AR)	<	0.06	1.29	1.37
Mn (AR)	-0.82	0.08	0.20	1.74
Mo (AR)	0.83	0.02	0.25	0.41
Ni (AR)	-2.60 *	0.72	1.71	2.43 *
Pb (AR)	5.34 **	-5.70 **	3.05 **	-2.73 *
V (AR)	0.08	2.05 *	1.17	1.42
Zn (AR)	0.99	0.59	0.13	0.56
C - org others (W&B a.o.) (SC)	-0.76	-1.14	-0.83	-1.17
Fraction < 16 µm (SC)	0.44	-0.53	0.62	0.46
Fraction < 2 µm (SC)	<	-2.48 *	-0.93	-0.38
Fraction < 63 µm (SC)	0.58	-0.24	0.24	0.17
pH - KCl (SC)	0.73	0.63	0.16	-1.03
Ca (BC)	#	-	#	#
CEC (BC)	#	-	#	#
K (BC)	#	-	#	#
Mg (BC)	#	-	#	#
Ca (M3)	-0.90	0.53	-1.68	0.46
K (M3)	-1.07	-1.66	-1.39	-1.09
Mg (M3)	-0.58	-0.56	-0.95	0.48
P (M3)	-0.36	-1.81	-1.17	-0.33
TEMAD (175)				
Al (RT)	-0.03	0.01	-0.05	-0.59
As (RT)	21.17 **	4.12 **	7.34 **	9.61 **
Ba (RT)	-0.09	0.34	1.29	0.78
Bi (RT)	#	#	#	#
Br (RT)	2.40 *	4.91 **	6.17 **	-2.61 *
Ca (RT)	-2.83 *	0.26	-1.60	-0.97
Ce (RT)	-2.81 *	1.24	3.33 **	0.62
Co (RT)	<	-2.39 *	-6.95 **	-1.27
Cr (RT)	0.77	0.02	1.68	-0.95
Cs (RT)	29.82 **	3.88 **	6.81 **	0.99
Cu (RT)	2.34 *	3.75 **	2.98 *	5.70 **
F (RT)	#	#	#	#
Fe (RT)	-0.72	1.21	1.33	0.70

(cont)

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Sample	997	863	865	962
TEMAD (175) (cont.)				
Ga (RT)	5.32 **	0.72	0.82	-0.50
Ge (RT)	< #	< #	< #	< #
K (RT)	-0.14	0.37	-0.03	-0.16
La (RT)	2.50 *	4.70 **	4.65 **	-1.55
Mg (RT)	0.38	-0.43	0.33	0.18
Mn (RT)	-1.14	-0.35	-0.69	-0.36
Mo (RT)	<	<	<	<
Na (RT)	-0.09	-0.70	-0.69	-0.39
Nb (RT)	1.05	-1.61	-0.53	-1.38
Nd (RT)	5.72 **	0.28	4.37 **	-0.33
Ni (RT)	-2.81 *	-3.13 **	-3.33 **	-2.31 *
P (RT)	-0.14	-0.19	0.08	-0.01
Pb (RT)	1.93	0.70	8.12 **	1.63
Rb (RT)	1.55	0.61	-0.17	0.47
S (RT)	4.09 **	-0.87	-0.33	-1.48
Sb (RT)	13.58 **	9.05 **	17.52 **	22.10 **
Sc (RT)	8.48 **	1.15	5.25 **	3.48 **
Se (RT)	< #	<	< #	< #
Si (RT)	-1.07	-0.78	-0.47	-0.40
Sn (RT)	<	<	<	-1.32
Sr (RT)	-1.22	-0.02	-0.74	-0.29
Th (RT)	16.88 **	3.21 **	8.23 **	10.97 **
Ti (RT)	-0.11	0.71	0.23	-0.34
Tl (RT)	< #	< #	< #	< #
U (RT)	<	<	<	<
V (RT)	-1.28	0.62	1.14	-0.69
W (RT)	<	<	<	6.81 **
Y (RT)	0.88	-5.48 **	0.26	1.63
Zn (RT)	-1.42	-0.22	-0.56	-0.96
Zr (RT)	2.16 *	4.02 **	0.82	1.85
DOLE (177)				
C - org others (W&B a.o.) (SC)	0.17	0.54	0.50	0.13
pH - CaCl2 (SC)	0.29	0.19	0.48	-0.14
pH - H2O (SC)	0.05	0.42	1.03	0.13
pH - KCl (SC)	0.08	0.29	0.41	0.16
Ca (M3)	-0.35	0.29	-0.13	-0.16
Cu (M3)	0.30	-0.70	-0.15	-0.43
Fe (M3)	-0.75	0.02	-0.02	-0.02
K (M3)	-0.33	0.88	-0.30	-0.44
Mg (M3)	-0.41	0.40	-0.40	0.07
Mn (M3)	-0.05	-0.61	-0.09	0.04
P (M3)	-0.58	0.57	-0.71	0.15
Zn (M3)	-0.35	0.11	0.67	0.09
HILL (180)				
Ag (AE)	< #	< #	< #	< #
Al (AE)	-1.69	-0.95	-1.24	-1.20
As (AE)	2.17 *	0.73	0.71	-0.10
B (AE)	< #	< #	< #	< #
Ba (AE)	-0.05	-0.34	-0.40	-0.89
Be (AE)	< #	#	#	0.45
Bi (AE)	< #	< #	< #	< #
Ca (AE)	-0.28	0.56	0.14	-0.30
Cd (AE)	0.74	0.97	< #	0.68
Co (AE)	-2.60 *	0.12	1.08	0.27
Cr (AE)	-2.68 *	-1.29	-1.38	-1.23
Cu (AE)	-0.77	0.10	-0.26	-0.70
Fe (AE)	-1.92	-0.06	0.66	-0.71
Hg (AE)	<	1.82	<	<
K (AE)	-0.98	-0.71	-0.82	-0.50
La (AE)	#	#	#	#
Li (AE)	#	#	#	#
Mg (AE)	-1.62	-1.46	-1.44	-4.41 **
Mn (AE)	0.25	0.77	1.93	1.98
Mo (AE)	#	#	#	< #

(cont)

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Sample	997	863	865	962
HILL (180) (cont.)				
Na (AE)	< #	-1.33	< #	-1.41
Ni (AE)	-3.06 **	-0.51	-1.23	-0.04
P (AE)	0.25	-0.27	0.24	-0.47
Pb (AE)	1.43	1.75	1.87	0.65
Rb (AE)	#	#	#	#
Sb (AE)	< #	< #	< #	< #
Se (AE)	< #	< #	< #	< #
Sn (AE)	< #	#	< #	#
Sr (AE)	#	#	#	#
Tl (AE)	< #	#	< #	< #
U (AE)	#	#	#	#
V (AE)	<	<	<	<
Zn (AE)	-1.37	-0.37	-0.74	-0.89
B (AR)	< #	-0.94	< #	-1.41
Ca (AR)	-1.19	-1.23	-1.21	-1.49
Cd (AR)	0.80	3.64 **	0.89	3.21 **
Co (AR)	-1.91	1.64	1.01	0.74
Cu (AR)	<	-3.19 **	-2.88 < *	-4.70 **
Fe (AR)	-2.62 *	-1.21	-0.95	-2.56 *
K (AR)	-3.99 **	-3.29 **	-3.48 **	-3.87 **
Mg (AR)	-3.02 **	-4.67 **	-3.67 **	-2.88 *
Mn (AR)	-1.29	-1.26	-0.05	-0.54
Mo (AR)	-1.17	-0.28	-0.10	-0.58
Na (AR)	-1.47	-5.92 **	-2.78 *	-3.95 **
P (AR)	-1.59	-1.85	-1.93	-1.59
S (AR)	-0.64	-0.89	-1.74	-0.69
Se (AR)	<	-2.02 *	<	<
Zn (AR)	-2.81 *	-3.14 **	-3.56 **	-3.75 **
EC-SC (ISO 11265) (SC)	-0.29	-0.53	-0.85	-0.20
pH - CaCl2 (SC)	-0.59	-0.13	-1.16	0.38
pH - H2O (SC)	-0.20	-0.23	0.40	-0.23
TC=Total C (org.+inorg.) (SC)	-2.61 *	-1.31	-0.78	-1.08
Ca (AA)	-0.25	-0.08	-0.07	0.55
CEC (AA)	4.76 **	0.65	0.50	0.38
K (AA)	0.40	-0.13	-0.02	-0.25
Mg (AA)	0.13	0.01	-0.26	-0.23
Na (AA)	-0.16	-0.18	<	-0.32
Al (M3)	-1.90	-1.29	-0.25	-3.04 **
B (M3)	0.28	0.17	0.98	-0.56
Ca (M3)	-1.51	-1.47	-1.26	-1.44
Cu (M3)	0.27	0.99	1.32	-2.23 *
Fe (M3)	-3.24 **	0.20	1.83	-1.11
K (M3)	-1.72	-1.74	-1.25	-1.70
Mg (M3)	-2.03 *	-2.42 *	-1.67	-2.93 *
Mn (M3)	-2.23 *	-1.13	-1.89	-0.83
Na (M3)	-0.94	-1.17	-0.91	-0.87
P (M3)	-3.07 **	1.03	2.55 *	-0.42
Zn (M3)	-2.59 *	-0.86	-0.78	-1.72
P - Olsen (as P) (PHOS)	-1.32	-0.04	-0.19	-0.87
SCSF (184)				
Cd (NA)	-1.14	-1.76	-0.91	-0.95
Co (NA)	-0.73	-1.66	-2.78 *	-0.96
Cr (NA)	-2.64 *	-1.08	-1.85	-0.61
Cu (NA)	-0.06	0.13	-1.49	0.60
Hg (NA)	-3.41 **	0.05	-0.01	0.32
Mo (NA)	1.18	0.56	0.21	#
Ni (NA)	-0.14	-0.53	-1.00	0.09
Pb (NA)	-0.81	-0.35	-0.66	-0.29
Zn (NA)	-3.11 **	-1.12	-2.07 *	-0.20
ALNN (185)				
Fraction < 16 µm (SC)	-	0.10	0.38	-0.89
Fraction < 2 µm (SC)	-	-0.08	0.15	-0.67
Org.matter (L.O.I.) (SC)	0.33	-0.86	-0.45	-0.64
pH - KCl (SC)	2.04 *	0.46	0.08	0.85

(cont)

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Sample	997	863	865	962
ALNN (185) (cont.)				
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.19
P - AL (as P) (PHOS)	#	#	#	#
P - w (as P) (PHOS)	#	#	< #	#
CSS (186)				
pH - H2O (SC)	1.31	2.13 *	1.54	0.84
pH - KCl (SC)	0.66	0.03	0.00	-0.45
Ca (AA)	-1.79	-0.48	-0.04	0.94
K (AA)	-0.31	-0.48	-0.27	-0.48
Mg (AA)	-0.38	-0.50	-0.67	-0.09
P - Olsen (as P) (PHOS)	-0.16	-0.01	0.61	-0.90
NEMALAB (187)				
C - org others (W&B a.o.) (SC)	0.58	0.74	1.19	0.73
pH - H2O (SC)	-0.71	-0.83	-1.30	-0.23
CEC (AA)	0.35	-1.62	-1.45	-2.23 *
EXACT (190)				
As (AE)	<	-0.49	-0.71	-0.88
Ba (AE)	<	-1.00	-0.91	-0.70
Cd (AE)	-1.98	-4.13 **	< #	<
Co (AE)	-0.71	1.36	0.31	-0.19
Cr (AE)	-0.72	0.21	-0.22	-0.66
Cu (AE)	<	0.10	<	-1.38
Hg (AE)	-1.83	-0.48	0.83	0.11
Ni (AE)	-0.05	0.24	-0.17	-0.57
Pb (AE)	-0.63	0.10	-0.66	-0.99
V (AE)	-0.31	0.60	-0.22	-1.65
Zn (AE)	-0.19	1.22	-0.28	-0.58
Fraction < 2 µm (SC)	-0.65	-0.51	-0.07	-0.07
Org.matter (L.O.I.) (SC)	-0.10	0.35	-0.04	0.00
pH - CaCl2 (SC)	3.07 **	4.11 **	1.18	-4.13 **
LABORECOF (194)				
C - elementary (RT)	-1.06	0.52	-0.30	0.60
N - elementary (RT)	-0.98	0.12	1.20	0.84
N (AE)	-0.03	0.43	1.38	0.80
pH - H2O (SC)	-0.05	-0.23	0.12	1.59
pH - KCl (SC)	-1.08	-0.66	-0.66	0.55
TC=Total C (org.+inorg.) (SC)	-0.95	0.38	-0.30	0.30
LEIPZIGMOE (195)				
As (AR)	1.37	-0.33	-	0.18
Ca (AR)	-0.60	-	-0.36	-1.99
Cd (AR)	-0.70	-2.34 *	0.26	-0.91
Co (AR)	-0.53	-0.92	-0.85	-0.03
Cr (AR)	-0.09	-0.81	-0.64	-0.62
Cu (AR)	-0.20	-0.69	-0.58	-0.20
Fe (AR)	-0.40	-0.63	0.02	0.09
Hg (AR)	-9.72 **	-5.95 **	-9.10 **	-5.44 **
Mg (AR)	-1.94	-1.48	-1.14	-1.35
Mn (AR)	-0.17	0.34	0.65	0.85
Mo (AR)	-0.08	0.20	-0.46	0.20
Ni (AR)	-0.31	-0.81	-0.48	-0.05
Pb (AR)	-0.86	-0.60	0.30	-0.53
Se (AR)	-1.13	-0.05	-0.49	-1.05
Tl (AR)	#	0.13	-0.63	-0.65
U (AR)	#	#	#	#
V (AR)	-2.59 *	0.06	-0.62	-0.38
Zn (AR)	0.57	-0.16	0.98	1.57
MARELI (204)				
N (AE)	-1.16	-0.58	-1.19	-0.53
As (AR)	26.05 **	13.50 **	24.56 **	19.51 **
B (AR)	#	1.40	#	2.12 *
Cd (AR)	0.50	10.83 **	0.89	9.88 **

(cont)

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Sample	997	863	865	962
MARELI (204) (cont.)				
Co (AR)	-1.47	0.37	0.03	0.74
Cr (AR)	2.76 *	-0.58	1.74	1.38
Cu (AR)	-0.36	0.00	1.78	0.85
Hg (AR)	12.41 **	4.78 **	3.03 **	2.23 *
Mo (AR)	-0.08	1.39	1.66	0.98
Ni (AR)	-3.09 **	0.53	0.08	1.02
Pb (AR)	0.82	1.00	1.10	1.03
Sn (AR)	18.86 **	132.16 **	33.54 **	114.04 **
Zn (AR)	-2.18 *	0.19	0.27	1.10
B (CC)	#	#	#	#
EC-SC (ISO 11265) (SC)	1.63	1.42	2.26 *	0.28
pH - H2O (SC)	0.30	0.36	0.40	0.84
Ca (AA)	0.49	0.62	-0.19	-0.26
K (AA)	2.05 *	1.33	1.88	0.93
Mg (AA)	1.15	0.73	0.97	1.19
Na (AA)	0.16	0.36	0.32	0.56
P - Olsen (as P) (PHOS)	0.58	1.58	0.47	0.66
CLHMC (205)				
Cd (NA)	10.36 **	4.68 **	9.53 **	2.89 *
Co (NA)	2.24 *	2.34 *	4.60 **	2.21 *
Cr (NA)	3.71 **	2.93 *	3.75 **	2.54 *
Cu (NA)	3.99 **	1.07	-2.78 *	-2.81 *
Hg (NA)	0.74	1.90	0.07	2.06 *
Mo (NA)	-3.47 **	-	-4.07 **	-
Ni (NA)	1.77	0.91	1.50	0.35
Pb (NA)	2.05 *	1.47	3.65 **	2.27 *
Zn (NA)	1.54	1.40	1.50	1.54
QLDNR&M (210)				
Al (RT)	1.55	-	-	-
As (RT)	-1.52	-	-	-
Ba (RT)	1.16	-	-	-
Be (RT)	#	-	-	-
Bi (RT)	#	-	-	-
Ca (RT)	0.58	-	-	-
Ce (RT)	0.79	-	-	-
Co (RT)	4.42 **	-	-	-
Cr (RT)	0.60	-	-	-
Cu (RT)	24.93 **	-	-	-
Fe (RT)	1.22	-	-	-
K (RT)	0.38	-	-	-
La (RT)	0.69	-	-	-
Mg (RT)	-0.16	-	-	-
Mn (RT)	0.57	-	-	-
Mo (RT)	3.37 **	-	-	-
Na (RT)	-0.32	-	-	-
Nd (RT)	0.11	-	-	-
Ni (RT)	9.85 **	-	-	-
P (RT)	0.16	-	-	-
Sb (RT)	22.43 **	-	-	-
Se (RT)	#	-	-	-
Si (RT)	3.68 **	-	-	-
Sr (RT)	0.82	-	-	-
Th (RT)	-1.32	-	-	-
Ti (RT)	-0.43	-	-	-
U (RT)	-0.47	-	-	-
V (RT)	0.11	-	-	-
Y (RT)	-0.53	-	-	-
Zn (RT)	-0.30	-	-	-
Zr (RT)	-0.31	-	-	-
EC-SC (ISO 11265) (SC)	0.76	-0.14	-0.34	0.28
pH - CaCl2 (SC)	-0.59	-1.18	-1.16	-0.27
pH - H2O (SC)	-0.71	-0.83	-0.73	0.13
Al (M3)	-0.58	-0.81	-4.78 **	-0.09
B (M3)	-0.45	-0.76	-0.46	0.04

(cont)

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Sample	997	863	865	962
QLDNR&M (210) (cont.)				
Ca (M3)	-0.29	-0.48	-0.18	-0.83
Cu (M3)	1.34	1.26	0.15	0.73
Fe (M3)	-0.13	-0.49	-0.39	0.13
K (M3)	-0.48	-0.28	-0.37	-0.16
Mg (M3)	-0.49	-0.24	-0.40	-0.05
Mn (M3)	-0.88	-0.58	-0.99	-0.40
Na (M3)	-0.14	1.62	0.57	0.30
P (M3)	0.37	1.09	0.78	1.90
Zn (M3)	0.12	1.01	-0.11	2.46 *
FORTEST (212)				
C - elementary (RT)	2.17 *	-0.43	0.89	-0.58
N - elementary (RT)	0.76	-0.87	-1.53	-0.97
S (RT)	-0.32	-0.25	-0.09	-0.58
N - NH4 (as N) (CC)	1.81	5.50 **	3.25 **	5.99 **
N - NO3 (as N) (CC)	0.62	0.70	1.48	-0.55
SO4 (CC)	#	#	#	#
EC-SC (ISO 11265) (SC)	0.38	-0.41	-0.34	-0.24
Org.matter (L.O.I.) (SC)	0.28	-2.66 *	-1.82	-1.77
pH - CaCl2 (SC)	-0.59	-0.76	-0.57	-0.01
pH - H2O (SC)	-0.96	-1.83	-1.13	-0.70
Al (BB)	#	#	#	#
Ca (BB)	#	#	#	#
CEC (BB)	#	#	#	#
Fe (BB)	#	#	#	-
K (BB)	#	#	#	#
Mg (BB)	#	#	#	#
Mn (BB)	#	#	#	#
Na (BB)	#	#	#	#
Al (M3)	0.51	1.68	0.12	0.33
B (M3)	0.00	-0.25	-0.29	0.22
Ca (M3)	0.77	0.55	0.47	-0.23
Cu (M3)	-0.22	-0.28	0.30	0.62
Fe (M3)	0.50	0.25	-0.12	0.62
K (M3)	0.31	1.16	0.19	0.79
Mg (M3)	0.52	0.79	0.18	0.37
Mn (M3)	-0.11	0.63	-0.24	0.19
Na (M3)	-0.29	0.52	-0.45	0.02
P (M3)	0.99	0.77	0.04	0.84
Zn (M3)	-0.01	0.56	-0.13	0.33
P - Bray (as P) (PHOS)	0.25	1.31	2.32 *	-0.56
REYEPS (213)				
Cd (AR)	-1.61	-2.46 *	-3.24 **	-3.14 **
Cr (AR)	-0.58	-0.99	-0.22	-0.80
Cu (AR)	-0.73	-0.88	-0.18	-0.13
Hg (AR)	0.45	0.12	0.54	0.01
Ni (AR)	0.15	-1.25	0.00	-1.13
Pb (AR)	-0.28	-0.63	0.06	0.26
Zn (AR)	-0.73	-1.24	-0.31	-0.57
GSISMA (214)				
C - elementary (RT)	-0.59	0.50	1.45	0.52
N - elementary (RT)	-0.10	0.98	2.09 *	1.69
Al (AE)	0.82	1.94	2.13 *	1.19
Cd (AE)	0.11	0.31	#	-0.32
Cr (AE)	1.37	2.17 *	2.10 *	1.60
Cu (AE)	0.93	0.29	0.01	-0.01
Fe (AE)	0.61	-0.19	-0.25	0.13
Mn (AE)	0.86	1.27	0.62	-0.14
Ni (AE)	0.81	1.10	0.93	0.66
Pb (AE)	0.36	-0.53	-0.85	-0.36
Zn (AE)	0.44	0.65	0.75	0.71
pH - H2O (SC)	0.86	0.30	0.52	-0.12
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-4.27 **
B - Hot water (OD)	#	#	#	#

(cont)

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Sample	997	863	865	962
GSISMA (214) (cont.)				
Moisture-content (OD)	-0.87	-0.02	0.78	-0.06
CEC (BC)	#	#	#	#
P - Olsen (as P) (PHOS)	-1.36	-0.46	1.48	-1.93
AQUON (216)				
pH - H2O (SC)	0.96	0.95	0.12	0.23
TIC=Tot.Inorg C(CaCO3) (SC)	<	<	< #	-0.93
MERLEWOOD (222)				
C - elementary (RT)	-0.88	-0.08	-0.58	-0.29
N - elementary (RT)	-0.66	0.28	0.30	0.44
delta 13C (OD)	#	#	#	#
delta 15N (OD)	#	#	#	#
Moisture-content (OD)	-2.91 *	-3.34 **	-2.51 *	-1.97
P - Olsen (as P) (PHOS)	0.24	0.23	-0.41	-0.30
CHEMLAB (228)				
As (AE)	<	0.32	0.12	-0.10
Ba (AE)	-0.63	0.32	0.43	1.18
Cd (AE)	-0.52	-0.69	< #	-0.18
Co (AE)	1.19	0.59	1.53	1.64
Cr (AE)	-0.39	0.87	0.68	0.81
Cu (AE)	0.17	1.08	0.55	0.67
Hg (AE)	<	-0.48	-0.79	-1.31
Mo (AE)	< #	< #	< #	< #
Ni (AE)	0.21	1.00	0.88	1.04
Pb (AE)	-1.39	-2.71 *	-3.82 **	-2.95 *
Sb (AE)	< #	#	< #	< #
Se (AE)	< #	< #	< #	< #
Sn (AE)	< #	< #	< #	< #
V (AE)	-1.40	-0.62	-0.22	0.30
Zn (AE)	0.60	0.16	0.86	1.83
Fraction < 2 µm (SC)	0.18	-0.04	0.32	0.11
Org.matter (L.O.I.) (SC)	-2.13 *	-0.28	-0.40	-0.06
pH - CaCl2 (SC)	2.34 *	0.93	0.01	0.38
ABMCE (230)				
Hg (AE)	-0.44	0.29	0.83	0.26
Al (AR)	-0.58	0.13	-0.23	-0.46
As (AR)	-4.67 < **	0.56	-0.23	0.01
Be (AR)	1.48	0.02	0.09	-0.68
Ca (AR)	-0.12	0.45	-0.52	0.67
Cd (AR)	-0.70	-0.07	<	0.67
Co (AR)	1.11	-0.34	-0.65	-1.79
Cr (AR)	-0.38	-0.02	-0.28	-0.45
Cu (AR)	0.05	-0.10	0.01	1.52
Fe (AR)	-0.13	0.99	0.64	-0.58
K (AR)	-0.81	-0.16	-0.29	-0.49
Mg (AR)	-0.53	0.16	-0.26	-0.77
Mn (AR)	0.21	0.86	0.05	-1.20
Mo (AR)	-0.45	0.50	-0.46	0.98
Na (AR)	<	-0.79	-0.12	-0.71
Ni (AR)	0.18	0.14	0.00	-0.42
P (AR)	0.09	2.21 *	0.28	0.03
Pb (AR)	-0.34	-0.03	-0.60	-0.19
S (AR)	-0.64	0.55	-0.97	3.51 **
V (AR)	-1.02	0.07	0.02	-0.30
Zn (AR)	-0.31	0.58	0.10	0.63
Ca (M3)	0.65	0.75	2.17 *	1.21
K (M3)	0.20	0.26	0.90	1.00
Mg (M3)	0.74	0.87	0.56	-0.05
P (M3)	-0.58	-1.13	-1.17	-0.40

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Sample	997	863	865	962
URKANTONE (232)				
Cd (NA)	1.16	1.14	0.36	0.22
Co (NA)	0.05	0.90	0.22	0.82
Cr (NA)	0.45	0.69	0.71	0.78
Cu (NA)	-0.02	-0.43	0.63	0.09
Hg (NA)	0.26	0.24	-0.62	-0.37
Ni (NA)	-0.14	0.99	0.47	0.96
Pb (NA)	0.09	1.54	-0.26	2.10 *
Zn (NA)	-1.45	0.46	0.27	-0.12
KLAL (233)				
pH - H2O (SC)	0.40	-0.77	-0.28	-0.70
pH - KCl (SC)	-0.86	-1.09	-0.75	-0.69
Ca (BC)	#	#	#	#
K (BC)	#	#	#	#
Mg (BC)	#	#	#	#
Na (BC)	#	#	#	#
P - Bray (as P) (PHOS)	-0.11	-0.23	0.73	-0.51
ARCWSG (238)				
N - elementary (RT)	-0.26	0.76	0.25	0.20
Al (AE)	0.29	0.22	-0.05	0.09
As (AE)	-0.01	-0.71	-0.90	-1.34
Ca (AE)	2.15 *	1.28	2.34 *	2.27 *
Co (AE)	0.47	1.32	1.52	0.99
Cr (AE)	1.11	0.27	0.21	0.12
Cu (AE)	0.27	1.87	0.56	0.68
Fe (AE)	1.35	3.10 **	0.96	0.76
K (AE)	0.20	0.62	0.26	0.73
Mg (AE)	0.80	0.44	0.30	-0.23
Mn (AE)	2.44 *	0.74	1.49	2.79 *
Na (AE)	#	0.06	#	0.19
Ni (AE)	1.94	1.37	1.67	0.98
P (AE)	0.12	-1.10	-0.66	-1.10
Pb (AE)	2.38 *	1.04	1.24	0.13
S (AE)	0.45	-0.11	0.06	0.83
Ti (AE)	#	#	#	#
Zn (AE)	1.41	0.85	1.15	-0.17
TC=Total C (org.+inorg.) (SC)	-0.18	0.71	0.41	0.49
P - Olsen (as P) (PHOS)	0.17	0.36	-0.77	0.24
K - NH4NO3 (1/5) (UK)	-0.93	-0.24	-0.64	-1.48
Mg - NH4NO3 (1/5) (UK)	-1.05	-0.52	-1.36	-3.07 **
P - NaHCO3 (1/20) (UK)	1.02	1.06	-1.95	1.27
pH - H2O (2/5) (UK)	-2.05 *	-0.47	-0.42	-1.44
AECSAGRICS (248)				
Ag (RT)	#	< #	< #	< #
Al (RT)	0.36	-0.16	1.63	0.66
As (RT)	-0.54	-0.06	-0.86	-0.97
Ba (RT)	-1.13	-0.04	-0.09	-0.12
Br (RT)	-1.00	-1.32	-0.49	-1.11
Ca (RT)	-1.30	-1.31	1.95	1.73
Cd (RT)	24.45 **	<	<	<
Ce (RT)	-0.24	-0.43	-0.79	-0.64
Co (RT)	-0.51	0.11	-0.19	0.15
Cr (RT)	-0.50	0.88	0.02	0.73
Cu (RT)	<	<	<	<
Fe (RT)	-0.76	-0.26	-1.09	-0.33
Hg (RT)	126.84 **	866.32 **	225.00 **	71.60 **
I (RT)	< #	< #	< #	< #
K (RT)	-0.50	-0.95	-1.34	-0.40
La (RT)	0.08	-0.55	-1.58	-1.19
Mg (RT)	-2.38 < *	6.92 **	5.50 **	1.37
Mn (RT)	-0.53	0.66	0.84	0.53
Mo (RT)	0.19	0.43	0.74	0.65
N - elementary (RT)	-1.68	-0.23	0.67	-0.03
Na (RT)	-0.33	-0.31	-0.47	-0.69

(cont)

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Sample	997	863	865	962
AECSAGRICS (248) (cont.)				
Nb (RT)	0.32	-3.11 **	-3.04 **	-2.50 *
Nd (RT)	-0.22	-0.60	0.11	-0.48
Ni (RT)	0.51	1.88	-1.25	0.84
Pb (RT)	-0.85	-0.38	-1.22	-0.67
Rb (RT)	0.36	0.50	0.11	0.17
Sb (RT)	-0.17	-0.32	-0.45	-0.23
Sc (RT)	-0.32	0.60	-0.58	-0.02
Sr (RT)	0.10	0.60	0.82	-0.89
Th (RT)	-0.52	-0.49	-0.17	-0.33
Ti (RT)	-0.11	-0.02	2.01 *	1.61
U (RT)	-0.86	-1.03	-0.66	-1.08
V (RT)	-0.36	0.35	0.53	0.83
Y (RT)	<	-0.46	<	-0.59
Zn (RT)	0.66	2.19 *	-0.26	1.55
Zr (RT)	0.16	1.57	0.38	0.74
EC-SC (ISO 11265) (SC)	-	-1.03	-1.23	-0.38
Org.matter (L.O.I.) (SC)	-	0.81	0.90	1.02
Ca (AA)	-0.04	-0.11	-0.70	0.18
CEC (AA)	-	-0.11	-	0.51
K (AA)	-	0.05	-	0.30
Mg (AA)	-	0.84	-	0.95
Na (AA)	-	0.09	-	1.30
P - Olsen (as P) (PHOS)	-0.49	-0.67	-1.45	-0.24
CIRADFLHOR (249)				
pH - H2O (SC)	0.10	0.18	0.35	0.45
pH - KCl (SC)	-1.01	-2.56 *	-1.98	-0.65
Ca (AA)	4.15 **	3.67 **	2.31 *	1.72
CEC (AA)	-1.25	1.27	0.70	1.19
K (AA)	4.80 **	0.23	2.83 *	0.93
Mg (AA)	1.32	-0.69	0.87	2.61 *
AARDVARKAA (250)				
pH - H2O (SC)	0.30	-0.65	-0.62	0.30
P - Olsen (as P) (PHOS)	-0.77	-0.64	-0.55	-0.07
ARIANUM (255)				
C - org others (W&B a.o.) (SC)	0.72	-	-	-
EC-SC (ISO 11265) (SC)	-	1.50	-	-
pH - H2O (SC)	-	-0.12	-	-
Ca (AA)	0.79	-	-	-
K (AA)	0.02	-	-	-
Mg (AA)	0.38	-	-	-
Cu (M3)	-	0.29	-	-
Fe (M3)	-	-2.69 *	-	-
Mn (M3)	-	0.99	-	-
P (M3)	-0.18	-	-	-
Zn (M3)	-	0.34	-	-
PIEST-RIPP (256)				
N - elementary (RT)	-1.21	-0.30	-1.06	-1.91
N - NH4 (as N) (CC)	0.18	-0.02	-0.54	-0.61
Moisture-content (OD)	1.46	1.49	1.55	2.12 *
Ca (M3)	-0.50	-0.38	-0.35	-0.54
K (M3)	1.62	1.03	1.02	0.63
Mg (M3)	-0.23	0.19	0.70	0.42
P (M3)	-0.73	-1.29	-0.45	-0.42
SLAF (260)				
C - elementary (RT)	0.33	-2.93 *	-0.06	-2.58 *
N - elementary (RT)	-0.22	-1.81	-0.74	-2.84 *
Al (AR)	0.42	0.88	1.61	1.35
Ca (AR)	0.71	-0.27	0.96	-0.03
Cd (AR)	-1.00	-0.31	-1.61	-0.28
Cr (AR)	-0.49	-0.28	0.38	-0.32
Cu (AR)	-1.34	-1.74	-2.78 *	-1.76

(cont)

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Sample	997	863	865	962
SLAF (260) (cont.)				
Fe (AR)	0.20	-0.48	-0.08	0.25
K (AR)	0.78	1.26	2.59 *	1.11
Mg (AR)	0.31	1.04	0.94	0.93
Mn (AR)	-1.09	-1.13	-1.33	-0.56
Na (AR)	-0.47	0.90	1.29	-0.45
P (AR)	-1.32	-0.52	-2.48 *	0.25
Pb (AR)	0.11	-0.29	-0.60	-0.31
S (AR)	-0.92	-0.87	-0.37	-1.15
Zn (AR)	-0.45	-0.41	-0.57	-1.00
CH-SAMEN (261)				
Cd (NA)	-0.08	-0.11	-0.52	-0.06
Co (NA)	0.17	-0.89	-1.07	-1.05
Cr (NA)	0.50	-0.11	-0.46	-0.37
Cu (NA)	0.53	-0.45	-0.13	-1.10
Hg (NA)	-0.93	-0.99	-1.33	-0.74
Mo (NA)	3.96 **	<	-0.55	< #
Ni (NA)	-0.19	-0.64	-0.81	-0.88
Pb (NA)	3.24 **	-1.92	1.41	-0.29
Zn (NA)	-0.19	-0.41	-0.66	-0.53
AGROLAB-SL (264)				
N (AE)	-0.79	-0.18	-0.29	-0.62
C - org others (W&B a.o.) (SC)	0.31	0.45	0.79	0.36
EC-SC (ISO 11265) (SC)	0.06	-0.24	-0.05	0.37
Fraction < 2 µm (SC)	-0.54	0.86	1.40	0.21
pH - H2O (SC)	0.15	-0.23	-0.56	-0.95
pH - KCl (SC)	-0.36	-1.09	-1.40	-0.96
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	-0.12
B - Hot water (OD)	#	#	#	#
Ca (AA)	-1.95	-2.47 *	-1.23	-0.38
K (AA)	-0.09	-1.62	-0.40	-0.99
Mg (AA)	-0.04	-0.39	-0.31	-0.13
Na (AA)	3.16 **	2.62 *	4.14 **	3.96 **
Cu (CAT)	3.47 **	2.84 *	3.79 **	3.92 **
Fe (CAT)	1.27	1.29	3.56 **	2.64 *
Mn (CAT)	-0.77	0.97	1.16	2.07 *
Zn (CAT)	0.60	0.74	0.85	0.43
LUNUWILA (270)				
N (AE)	0.74	0.69	0.81	0.75
C - org others (W&B a.o.) (SC)	6.91 **	13.31 **	10.68 **	11.08 **
EC-SC (ISO 11265) (SC)	-13.66 **	39.13 **	30.95 **	87.74 **
pH - H2O (SC)	-3.47 **	-2.66 *	-1.53	-3.23 **
Ca (AA)	-4.57 **	-4.66 **	-3.20 **	-2.07 *
K (AA)	0.02	0.34	0.30	0.13
Mg (AA)	-3.42 **	-3.04 **	-3.43 **	-3.24 **
Na (AA)	0.64	1.45	0.32	0.92
P - Bray (as P) (PHOS)	0.71	0.88	-1.61	-0.14
EVI707 (272)				
C - org others (W&B a.o.) (SC)	-0.13	-0.03	-0.24	-0.19
pH - CaCl2 (SC)	-0.30	-0.65	-0.69	0.96
pH - H2O (SC)	0.25	0.30	0.23	1.41
pH - KCl (SC)	0.37	-0.06	-0.33	0.97
IGEOLUNAM (273)				
N - elementary (RT)	0.29	0.08	0.36	-0.27
Cr (AE)	-0.85	-0.72	-0.49	0.07
Cu (AE)	0.08	-1.38	1.78	1.01
Fe (AE)	-0.66	-2.72 *	-0.99	-1.11
Mn (AE)	-1.93	-1.75	-1.60	-1.54
Ni (AE)	1.24	-1.08	-0.70	0.23
Pb (AE)	-0.24	-0.31	-0.66	0.00
Zn (AE)	-0.74	-0.47	-1.66	0.47
Fraction < 2 µm (SC)	0.89	-0.73	-1.37	0.29

(cont)

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Sample	997	863	865	962
IGEOLUNAM (273) (cont.)				
Fraction < 63 µm (SC)	1.81	0.49	0.65	0.73
Fraction > 63 µm (SC)	-1.49	-0.43	-0.79	-1.33
pH - H2O (SC)	1.96	-0.47	-1.13	-0.84
pH - KCl (SC)	0.59	-0.75	-1.07	-0.57
TC=Total C (org.+inorg.) (SC)	1.02	0.18	0.20	-0.35
Ca (AA)	-0.57	-1.68	-0.17	0.22
K (AA)	-0.09	-0.64	0.24	0.93
Mg (AA)	-0.04	-1.30	-0.26	0.24
Na (AA)	5.10 **	2.74 *	5.91 **	3.23 **
P - Bray (as P) (PHOS)	-0.04	-0.50	0.33	-0.41
P - Olsen (as P) (PHOS)	-0.06	0.82	0.81	-0.67
SeqBioMpl (274)				
N - elementary (RT)	0.61	-1.39	-0.90	0.67
TC=Total C (org.+inorg.) (SC)	1.29	-0.26	-0.38	0.41
MUMPFROG (275)				
N - elementary (RT)	0.61	0.31	0.04	0.44
S (RT)	-0.03	0.21	0.29	0.40
Ag (AR)	#	#	#	#
Al (AR)	-0.18	0.11	-0.70	0.30
As (AR)	0.41	0.19	-0.16	0.79
Ba (AR)	-0.80	0.30	0.13	0.16
Be (AR)	0.30	0.11	0.18	0.64
Ca (AR)	0.22	-0.66	0.52	-0.34
Cd (AR)	0.02	-0.55	-0.42	-0.18
Co (AR)	-0.22	0.24	-0.65	0.90
Cr (AR)	-0.13	0.51	-0.12	0.91
Cu (AR)	0.25	-0.26	0.23	0.17
Fe (AR)	-0.44	-0.49	-1.23	-0.27
Hg (AR)	0.79	-0.07	-0.17	-0.23
K (AR)	0.11	0.26	0.20	0.19
Mg (AR)	0.25	-0.21	-0.14	0.80
Mn (AR)	0.49	-0.61	0.15	-0.68
Mo (AR)	0.06	0.44	-0.37	0.43
Na (AR)	0.52	0.03	0.15	0.27
Ni (AR)	0.27	0.44	-0.24	1.15
P (AR)	0.77	-0.88	0.28	-0.02
Pb (AR)	0.30	0.03	0.01	0.65
S (AR)	-0.32	-1.38	-0.44	-0.32
Sb (AR)	-0.79	-0.07	-0.92	0.19
Se (AR)	0.19	0.22	0.03	0.30
Sn (AR)	-0.28	-0.54	-1.04	0.05
Sr (AR)	-0.27	0.20	0.14	-0.33
Ti (AR)	-0.31	-0.06	-0.10	-0.04
Tl (AR)	#	0.30	0.59	0.82
U (AR)	#	#	#	#
V (AR)	0.08	1.08	0.16	1.04
Zn (AR)	-0.52	-0.49	-1.09	-0.08
pH - CaCl2 (SC)	-0.37	-0.44	-0.69	-0.14
pH - H2O (SC)	-0.30	-0.06	0.12	0.91
pH - KCl (SC)	-0.21	-0.23	-0.25	0.66
TC=Total C (org.+inorg.) (SC)	-0.09	-0.79	-0.86	-0.88
SPAL (282)				
N (AE)	-2.48 *	-2.62 *	-2.92 *	-1.67
K (CC)	-0.36	-1.98	-0.19	-1.18
N - NH4 (as N) (CC)	-0.03	-0.79	-0.05	-0.33
C - org others (W&B a.o.) (SC)	0.23	-0.46	0.69	-0.57
pH - H2O (SC)	0.30	1.66	1.20	0.70
pH - KCl (SC)	0.37	0.72	0.90	0.01
Ca (AA)	0.13	1.05	0.89	0.54
CEC (AA)	0.73	0.12	0.94	0.77
K (AA)	6.45 **	1.14	0.93	0.30
Mg (AA)	-1.06	-1.72	-0.26	-0.26
Na (AA)	1.75	1.04	1.05	1.15

(cont)

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Sample	997	863	865	962
SPAL (282) (cont.)				
P - Bray (as P) (PHOS)	-0.84	-0.24	0.55	0.67
P - Olsen (as P) (PHOS)	-1.85	-1.08	-1.13	20.15 **
FFEEBW (284)				
Al (AR)	0.50	0.72	0.84	0.68
As (AR)	1.41	1.03	1.17	0.94
Ca (AR)	1.75	1.49	0.38	0.00
Cd (AR)	0.48	0.84	0.11	0.78
Co (AR)	0.92	0.81	0.26	0.82
Cr (AR)	0.88	0.94	0.94	0.73
Cu (AR)	1.43	-0.38	-0.37	-0.27
Fe (AR)	0.99	-0.09	0.60	-0.05
K (AR)	0.55	1.06	1.39	0.87
Mg (AR)	0.54	2.36 *	1.60	0.82
Mn (AR)	0.18	1.19	0.95	0.56
Mo (AR)	1.13	0.15	0.55	-0.52
Na (AR)	3.82 **	4.74 **	3.46 **	4.08 **
Ni (AR)	-0.30	-1.20	-3.07 **	-1.54
P (AR)	0.30	1.56	0.65	0.94
Pb (AR)	-0.88	-0.86	-1.91	-1.49
S (AR)	0.48	1.18	0.45	0.59
Zn (AR)	0.42	1.31	0.27	0.61
Ca (BC)	#	#	#	#
CEC (BC)	#	#	#	#
K (BC)	#	#	#	#
Mg (BC)	#	#	#	#
Na (BC)	#	#	#	#
APVROPAVA (287)				
Fraction < 2 µm (SC)	0.28	-1.81	2.99 *	-3.76 **
Fraction < 63 µm (SC)	0.00	-0.40	1.42	-3.77 **
UAN AUE BL (290)				
Cd (NA)	-0.59	-0.45	-0.06	-0.35
Co (NA)	-0.36	0.03	0.24	0.57
Cr (NA)	-2.26 *	0.01	-0.19	0.23
Cu (NA)	-1.52	-2.42 *	-0.58	-0.32
Hg (NA)	0.28	0.59	0.81	0.60
Mo (NA)	-0.45	-0.81	0.45	#
Ni (NA)	-0.75	0.01	0.28	0.29
Pb (NA)	-1.31	-0.48	-0.40	0.54
Tl (NA)	#	#	#	#
Zn (NA)	-2.98 *	-1.34	-0.81	-0.87
Cd (SN)	0.72	0.55	0.03	< #
Cu (SN)	#	0.16	#	-0.36
Ni (SN)	-0.41	0.78	-0.20	#
Pb (SN)	#	< #	#	< #
Zn (SN)	#	-0.37	-1.21	< #
MBT (291)				
As (AE)	<	0.36	-0.02	-0.03
Cd (AE)	0.32	-0.41	< #	<
Co (AE)	<	0.12	0.43	0.13
Cr (AE)	-0.10	-0.10	-0.20	0.00
Cu (AE)	<	0.44	0.08	0.12
Hg (AE)	-0.13	-0.63	0.20	0.41
Ni (AE)	0.27	0.79	0.51	0.66
P (AE)	1.21	0.67	0.45	0.84
Pb (AE)	0.90	-0.18	0.48	1.14
Zn (AE)	0.29	0.16	0.27	0.31
Cd (NA)	-0.08	0.57	-0.52	-0.39
Co (NA)	0.90	0.40	1.42	0.19
Cr (NA)	-0.90	-0.19	-0.79	-0.51
Cu (NA)	0.92	4.00 **	0.40	2.82 *
Hg (NA)	-0.65	-0.40	-0.08	-1.10
Ni (NA)	0.70	0.38	-0.04	-0.26

(cont)

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Sample	997	863	865	962
MBT (291) (cont.)				
Pb (NA)	1.40	-0.97	-0.08	-0.68
Zn (NA)	2.86 *	0.70	0.18	0.69
Deltares (293)				
Al (RT)	-1.36	0.29	-0.72	0.28
As (RT)	1.23	0.36	0.79	0.30
Ba (RT)	1.30	1.78	1.81	-0.21
Ca (RT)	1.68	-0.29	1.92	-0.16
Cd (RT)	0.70	1.32	2.69 *	2.52 *
Cr (RT)	0.07	0.43	0.09	0.53
Cu (RT)	2.33 *	2.31 *	2.57 *	2.85 *
Fe (RT)	-0.33	0.69	0.56	0.29
Ga (RT)	0.50	-0.22	0.35	0.56
K (RT)	-0.67	-0.58	-0.39	-0.85
La (RT)	-0.57	-0.26	-0.11	-0.82
Li (RT)	#	#	#	#
Mg (RT)	-0.07	0.71	0.20	0.60
Mn (RT)	0.64	-0.07	1.36	1.05
Mo (RT)	-0.08	-0.55	-0.45	-0.42
Na (RT)	0.81	1.37	1.02	0.78
Nb (RT)	-0.59	0.24	0.46	0.14
Nd (RT)	0.84	-0.74	0.85	-0.59
Ni (RT)	-0.67	1.50	-0.66	1.44
P (RT)	-0.10	0.81	0.18	0.11
Pb (RT)	-0.63	0.73	-0.80	-0.01
Rb (RT)	0.52	0.63	0.42	0.69
S (RT)	0.21	0.52	0.83	1.14
Sb (RT)	-0.53	0.19	-0.31	-0.23
Sc (RT)	3.44 **	-1.37	0.06	-1.03
Si (RT)	0.87	0.37	1.18	1.16
Sn (RT)	0.05	1.22	0.90	0.89
Sr (RT)	0.36	1.11	0.62	0.92
Th (RT)	-0.52	-0.18	-0.40	-0.39
Ti (RT)	0.15	0.91	0.48	0.71
Tl (RT)	#	#	#	#
U (RT)	-0.86	-0.33	-1.01	-0.66
V (RT)	-0.33	0.76	0.29	0.32
Y (RT)	0.40	1.09	0.42	1.03
Zn (RT)	-1.75	0.43	0.03	-0.26
Zr (RT)	0.57	0.30	0.47	-0.16
As (AE)	1.68	1.90	1.26	1.18
Cd (AE)	0.95	0.97	#	1.54
Cu (AE)	13.19 **	3.18 **	4.07 **	2.08 *
Ni (AE)	1.20	2.66 *	1.90	1.88
Pb (AE)	6.64 **	0.84	0.87	1.13
Zn (AE)	2.85 *	1.67	1.41	1.09
Fraction < 16 µm (SC)	1.15	0.38	-0.21	-0.13
Fraction < 2 µm (SC)	2.63 *	0.33	2.39 *	-0.57
Fraction < 63 µm (SC)	0.04	0.50	-0.45	0.11
Fraction > 63 µm (SC)	0.04	-0.43	0.41	-0.34
Org.matter (L.O.I.) (SC)	-0.63	0.60	0.50	0.62
TC=Total C (org.+inorg.) (SC)	-0.31	1.16	1.07	0.43
TIC=Tot.Inorg C(CaCO3) (SC)	-0.53	-0.44	#	-7.91 **
TOC=Total Org. C (SC)	0.26	0.64	0.57	1.73
DAR (296)				
pH - CaCl2 (SC)	1.39	0.09	-0.11	-0.85
Ca (AA)	-0.41	-0.36	0.19	0.65
CEC (AA)	0.15	0.06	-0.58	-1.66
K (AA)	9.20 **	4.06 **	5.37 **	2.02 *
Mg (AA)	0.30	-1.19	0.36	-0.20
Na (AA)	1.43	0.91	2.15 *	1.15
P - Bray (as P) (PHOS)	0.91	-0.92	0.09	0.76

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Sample	997	863	865	962
Momotombo (297)				
C - org others (W&B a.o.) (SC)	-0.84	-0.71	-0.53	-0.52
EC-SC (ISO 11265) (SC)	-2.06 *	-0.38	-0.41	-0.53
pH - H2O (SC)	-0.76	-1.00	-0.79	-0.20
CEC (AA)	-1.88	1.99	0.32	-0.47
P - Olsen (as P) (PHOS)	5.23 **	4.54 **	1.84	5.55 **
ARRET (298)				
As (AE)	-1.43	-1.77	-3.81 **	-2.19 *
Ba (AE)	2.39 *	-3.18 **	0.11	-1.05
Cd (AE)	19.36 **	33.15 **	#	22.11 **
Co (AE)	0.56	-5.00 **	-2.92 *	-3.41 **
Cr (AE)	-5.90 **	-4.04 **	-2.60 *	-2.91 *
Cu (AE)	-0.17	-5.84 **	-3.26 **	-2.66 *
Mo (AE)	#	#	#	#
Ni (AE)	-4.34 **	-4.40 **	-4.38 **	-3.26 **
Pb (AE)	-1.61	-0.94	0.65	-0.46
Zn (AE)	-3.61 **	-4.21 **	-6.08 **	-2.36 *
RALA (299)				
N - elementary (RT)	-0.54	-0.87	-0.47	-0.88
TC=Total C (org.+inorg.) (SC)	-0.26	-1.25	0.49	-0.55
ANALGEO (300)				
Al (RT)	0.52	-0.16	0.00	0.06
Ca (RT)	-0.02	-1.11	-0.23	-0.56
Co (RT)	<	-0.30	1.19	2.79 *
Cr (RT)	6.30 **	-0.47	-0.49	-0.79
Fe (RT)	0.25	-0.26	0.01	0.22
Ga (RT)	-0.62	0.72	-1.16	-0.50
Hg (RT)	1.09	0.54	0.45	-0.15
K (RT)	0.56	0.07	0.27	-0.13
Mg (RT)	-1.09	-0.73	-0.60	-0.56
Mn (RT)	0.23	0.04	0.00	-0.42
Nb (RT)	0.53	0.54	0.79	0.57
Ni (RT)	0.20	0.47	-0.55	-0.02
P (RT)	0.60	0.13	0.44	0.28
Pb (RT)	0.05	0.49	0.82	-0.21
Rb (RT)	-1.13	-0.90	-1.54	-1.04
Si (RT)	-0.57	-2.88 *	-1.27	-1.66
Sr (RT)	-1.47	-2.17 *	-1.15	-1.02
Ti (RT)	0.50	-0.14	0.13	0.34
V (RT)	0.48	0.21	-0.05	0.46
Y (RT)	-1.35	-1.07	-1.15	0.00
Zn (RT)	-0.86	-0.81	-1.34	-1.28
As (AE)	<	0.44	0.00	0.36
Ba (AE)	-0.92	0.39	1.10	0.34
Ca (AE)	-2.43 *	-0.53	-0.75	-0.32
Cd (AE)	<	0.97	< #	<
Co (AE)	<	-0.57	-0.76	-0.19
Cr (AE)	-1.01	0.41	0.38	0.25
Hg (AE)	-2.99 *	-1.78	-1.59	-0.45
Mn (AE)	-0.94	-0.19	-0.51	0.44
Mo (AE)	#	#	#	#
Ni (AE)	-0.40	0.45	0.20	0.64
P (AE)	-0.57	0.26	1.10	0.21
Pb (AE)	-0.93	0.48	-0.22	0.98
S (AE)	-1.12	0.27	-0.26	0.45
Sr (AE)	#	#	#	#
V (AE)	-0.94	-0.22	-0.36	-0.22
Zn (AE)	0.68	0.53	-0.15	0.64
pH - H2O (SC)	0.81	0.24	0.12	0.98
SPOOR (305)				
Ag (AE)	-	-	< #	< #
As (AE)	-	-	-0.24	-0.10
Ba (AE)	-	-	1.77	2.60 *

(cont)

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Sample	997	863	865	962
SPOOR (305) (cont.)				
Be (AE)	-	-	#	0.45
Cd (AE)	-	-	< #	2.39 *
Co (AE)	-	-	-0.15	-0.76
Cr (AE)	-	-	0.80	0.81
Cu (AE)	-	-	<	-0.70
Mo (AE)	-	-	< #	< #
Pb (AE)	-	-	-0.03	-0.33
Sb (AE)	-	-	< #	< #
Se (AE)	-	-	< #	< #
Sn (AE)	-	-	< #	< #
Th (AE)	-	-	< #	< #
Tl (AE)	-	-	< #	< #
V (AE)	-	-	0.36	0.95
Fraction < 2 µm (SC)	-	-	-0.07	-1.16
Org.matter (L.O.I.) (SC)	-	-	-0.01	0.00
ERSAFVGS CA (307)				
C - elementary (RT)	-0.07	-1.15	-0.58	-0.61
N - elementary (RT)	0.92	0.44	0.88	1.38
C - org others (W&B a.o.) (SC)	-0.18	-0.19	1.10	0.83
Fraction < 2 µm (SC)	-0.96	-2.93 *	-1.70	-1.98
Fraction < 63 µm (SC)	-1.05	-11.99 **	-2.18 *	-5.54 **
Fraction > 63 µm (SC)	0.40	2.80 *	1.14	1.08
pH - KCl (SC)	4.21 **	3.22 **	1.07	-1.38
TIC=Tot.Inorg C(CaCO3) (SC)	0.00	-0.38	#	-0.19
Ca (AA)	0.18	-0.39	-0.20	0.21
CEC (AA)	0.24	1.04	0.99	0.96
K (AA)	0.57	-0.26	0.33	-0.44
Mg (AA)	0.49	0.04	0.36	0.07
Na (AA)	-0.10	-0.06	0.01	-0.07
P - Olsen (as P) (PHOS)	0.72	0.72	0.31	0.48
HLVAKASSEL (313)				
N - elementary (RT)	162.68 **	-0.36	0.30	0.91
Al (AR)	0.47	0.37	-0.49	0.04
As (AR)	-0.21	-0.18	-0.02	0.53
Be (AR)	-0.53	-1.42	-0.45	-0.18
Ca (AR)	0.47	0.08	0.48	0.36
Cd (AR)	-0.61	-0.02	-0.42	-0.03
Co (AR)	-0.85	-0.34	-1.53	0.07
Cr (AR)	0.16	0.36	-0.04	0.16
Cu (AR)	0.75	0.03	0.63	0.47
Fe (AR)	-0.03	0.06	0.55	0.47
Hg (AR)	-0.55	-0.07	-0.26	0.20
K (AR)	0.28	-0.28	-0.39	-0.25
Mg (AR)	0.56	0.18	0.16	0.04
Mn (AR)	0.21	0.64	0.65	0.71
Mo (AR)	0.13	0.69	0.10	0.40
Ni (AR)	-0.42	1.11	0.49	0.11
P (AR)	0.23	0.88	-0.53	1.11
Pb (AR)	-1.25	0.51	-0.93	0.58
S (AR)	-0.48	-0.40	-0.50	0.40
Sb (AR)	-1.21	-0.66	-0.54	-0.47
Se (AR)	-0.29	-0.39	-0.51	-0.26
Sn (AR)	-0.29	0.30	-0.54	0.43
Sr (AR)	-1.17	0.09	-2.04 *	0.48
Ti (AR)	-0.15	-0.54	-0.57	-0.42
Tl (AR)	#	1.31	0.91	0.89
V (AR)	0.83	0.44	0.07	0.47
Zn (AR)	-0.05	0.42	-0.95	-2.92 *
K (CC)	27.36 **	0.84	4.83 **	1.31
Mg (CC)	0.13	0.94	0.17	0.32
Na (CC)	#	#	#	#
pH - CaCl2 (SC)	0.51	-0.02	0.60	-0.07
pH - H2O (SC)	0.15	0.42	0.91	0.48
pH - KCl (SC)	0.73	0.89	0.90	0.82

(cont)

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Sample	997	863	865	962
HLVAKASSEL (313) (cont.)				
TC=Total C (org.+inorg.) (SC)	-14.53 **	-1.11	-0.70	-0.88
LUARE (314)				
As (RT)	<	-0.91	-0.76	-0.30
Ba (RT)	2.27 *	0.10	-0.09	0.15
Ca (RT)	14.90 **	-2.75 *	0.19	0.42
Cd (RT)	<	2.24 *	<	<
Cr (RT)	3.83 **	1.38	1.20	0.30
Cu (RT)	1.08	0.36	0.13	0.20
Fe (RT)	4.59 **	0.20	2.32 *	1.81
K (RT)	0.16	-1.63	0.79	-1.62
Mg (RT)	<	-0.39	1.87	2.37 *
Mn (RT)	4.60 **	-0.40	0.21	-0.55
Ni (RT)	<	-0.42	-0.14	-0.02
Pb (RT)	1.88	0.81	1.01	1.52
Ti (RT)	3.95 **	-2.47 *	-0.85	-1.30
V (RT)	6.16 **	-0.07	0.44	-0.08
Zn (RT)	1.26	-0.69	0.20	-0.41
SMBPLNUS (315)				
N (AE)	-0.53	-1.18	-0.51	-0.71
CEC (AA)	0.41	-2.37 *	-1.41	-4.02 **
B (M3)	-1.29	-	-	-1.61
Ca (M3)	0.57	2.38 *	0.76	1.46
Cu (M3)	-0.43	0.23	-1.13	1.25
Fe (M3)	-0.28	-3.87 **	-1.14	-0.21
K (M3)	0.26	-0.04	0.83	0.30
Mg (M3)	0.48	-0.31	1.11	0.66
Mn (M3)	-0.34	-0.64	-0.29	-0.29
Na (M3)	1.29	0.81	1.28	1.34
P (M3)	0.66	-0.17	0.06	0.63
Zn (M3)	-1.87	-1.45	-1.53	-0.64
NFVGOE (321)				
Al (RT)	-0.05	0.29	-0.02	0.30
Ba (RT)	0.13	0.83	-0.35	0.15
Ca (RT)	-0.54	-0.95	-0.38	-0.45
Cd (RT)	-0.19	0.67	-0.08	0.09
Co (RT)	0.59	-0.38	-0.13	-0.59
Cr (RT)	0.44	-0.20	0.01	-0.47
Cu (RT)	-1.46	0.45	-0.57	-0.29
Fe (RT)	0.06	-0.12	-0.04	-0.27
K (RT)	0.50	0.67	0.15	0.48
Mg (RT)	0.58	-0.21	-0.15	-0.29
Mn (RT)	-0.24	-0.32	-0.28	-0.58
N - elementary (RT)	-0.18	-0.23	0.04	-0.27
Na (RT)	0.17	-0.10	0.13	0.32
Ni (RT)	0.14	-0.22	0.13	-0.64
P (RT)	0.01	-0.82	-0.57	-0.77
Pb (RT)	0.59	-1.89	0.06	-2.32 *
S (RT)	0.35	0.48	0.80	0.87
Ti (RT)	-0.15	-0.10	-0.54	-0.20
Zn (RT)	-0.06	-0.15	0.09	-0.49
Al (AR)	2.47 *	0.54	0.75	0.70
Ba (AR)	1.43	0.95	0.93	0.75
Ca (AR)	3.15 **	0.54	1.10	0.82
Cd (AR)	1.70	-0.55	-1.61	-1.23
Co (AR)	0.92	0.69	1.17	-0.05
Cr (AR)	2.92 *	0.74	0.39	-0.05
Cu (AR)	2.03 *	0.89	0.38	0.50
Fe (AR)	2.46 *	0.85	1.22	0.74
K (AR)	1.72	0.68	0.74	0.69
Mg (AR)	1.46	1.07	0.45	0.62
Mn (AR)	2.46 *	0.04	-0.05	0.09
Na (AR)	1.38	0.67	0.46	1.14
Ni (AR)	3.04 **	0.22	0.71	-0.06

(cont)

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Sample	997	863	865	962
NFVGOE (321) (cont.)				
P (AR)	6.29 **	-0.04	0.19	-0.17
Pb (AR)	2.17 *	-0.09	0.20	-0.11
S (AR)	9.05 **	0.20	0.62	0.53
Ti (AR)	1.51	1.54	2.47 *	0.87
Zn (AR)	1.71	0.14	0.40	0.03
pH - CaCl2 (SC)	1.68	0.83	0.36	-0.20
pH - H2O (SC)	1.16	1.12	0.80	0.55
pH - KCl (SC)	0.30	-0.06	0.24	0.59
TC=Total C (org.+inorg.) (SC)	-0.33	-0.88	-0.19	-0.55
Al (AC)	-	#	#	-
Ca (AC)	-	#	#	-
CEC (AC)	-	#	#	-
Fe (AC)	-	#	#	-
H (AC)	-	-	#	-
K (AC)	-	#	#	-
Mg (AC)	-	#	#	-
Mn (AC)	-	#	#	-
Na (AC)	-	#	#	-
Al (BB)	#	#	#	-
Ca (BB)	#	#	#	#
CEC (BB)	#	#	#	#
Fe (BB)	#	#	#	-
H (BB)	#	#	#	-
K (BB)	#	#	#	#
Mg (BB)	#	#	#	#
Mn (BB)	#	#	#	#
Na (BB)	#	#	#	#
FVABW (322)				
N - elementary (RT)	-0.18	-0.33	0.09	-0.66
N (AE)	0.44	-0.42	0.46	-0.71
Al (AR)	-0.01	0.50	0.34	0.57
As (AR)	-0.44	-0.03	-0.25	0.10
Ca (AR)	0.03	-1.41	-0.59	1.20
Cd (AR)	-0.10	-0.31	-4.74 **	-1.87
Co (AR)	0.48	0.48	-1.27	0.90
Cr (AR)	-0.01	0.79	0.03	0.54
Cu (AR)	0.05	0.61	0.06	0.70
Fe (AR)	-0.50	-0.74	-1.02	-1.62
K (AR)	0.28	1.07	1.27	0.98
Mg (AR)	-0.11	0.19	0.15	-0.01
Mn (AR)	-0.35	-1.26	-0.54	-1.17
Na (AR)	0.74	0.67	1.01	0.76
Ni (AR)	-0.16	0.42	-1.21	0.40
P (AR)	-1.12	-0.04	-0.66	0.27
Pb (AR)	1.72	1.50	1.34	1.60
S (AR)	0.07	0.20	0.62	1.06
Zn (AR)	-0.73	-0.33	-0.51	-0.22
pH - CaCl2 (SC)	0.29	-0.13	0.24	0.05
pH - H2O (SC)	0.40	0.71	0.46	0.80
pH - KCl (SC)	0.01	-0.23	-0.17	0.66
TC=Total C (org.+inorg.) (SC)	0.78	0.23	1.36	0.97
TIC=Tot.Inorg C(CaCO3) (SC)	2.31 *	2.36 *	< #	2.00 *
TOC=Total Org. C (SC)	0.38	-0.74	0.81	-0.63
Al (AC)	-	-	#	-
Ca (AC)	-	-	#	-
CEC (AC)	-	-	#	-
Fe (AC)	-	-	#	-
H (AC)	-	-	#	-
K (AC)	-	-	#	-
Mg (AC)	-	-	#	-
Mn (AC)	-	-	#	-
Na (AC)	-	-	#	-
Al (BB)	< #	#	#	< #
Ca (BB)	#	#	#	#
CEC (BB)	#	#	#	#

(cont)

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Sample	997	863	865	962
FVABW (322) (cont.)				
Fe (BB)	#	< #	#	< #
H (BB)	< #	#	#	< #
K (BB)	#	#	#	#
Mg (BB)	#	#	#	#
Mn (BB)	#	#	#	#
Na (BB)	#	#	#	#
SMART (326)				
N (AE)	0.52	0.82	0.42	0.53
C - org others (W&B a.o.) (SC)	0.82	0.12	0.10	1.56
pH - H2O (SC)	-0.77	-0.83	-0.58	-0.36
pH - KCl (SC)	-0.72	-1.24	-1.13	0.15
Ca (AA)	-0.40	-0.20	-0.34	1.17
CEC (AA)	-0.03	0.18	0.00	-0.47
K (AA)	0.73	-0.37	0.84	0.31
Mg (AA)	0.68	0.31	0.27	0.39
Na (AA)	0.12	-0.75	0.28	-0.09
P - Bray (as P) (PHOS)	-0.91	-0.83	-0.48	-0.74
GLAGC (327)				
Al (RT)	-0.35	0.22	-0.96	0.34
As (RT)	-0.09	-0.01	-0.04	0.10
Ba (RT)	0.65	0.28	-0.78	-0.04
Be (RT)	#	#	#	#
Ca (RT)	-0.10	0.26	-0.02	-0.58
Cd (RT)	0.19	0.32	-0.08	0.09
Co (RT)	-0.30	-0.65	-0.24	-0.76
Cr (RT)	0.11	-0.47	0.02	-0.79
Cu (RT)	-0.31	0.40	-1.12	0.55
Fe (RT)	0.25	-1.82	-0.65	-1.44
Ga (RT)	<	0.03	0.82	-0.50
K (RT)	-0.17	0.31	-0.43	0.12
Li (RT)	#	#	#	#
Mg (RT)	-0.06	-1.07	-0.45	-1.54
Mn (RT)	0.52	0.02	0.09	-0.84
Mo (RT)	-0.16	-0.90	-0.70	-0.74
N - elementary (RT)	-1.05	-1.13	-0.80	-1.13
Na (RT)	-0.20	-0.10	-0.24	-0.08
Ni (RT)	0.69	0.08	0.21	-0.41
P (RT)	0.33	-0.37	-0.25	-0.84
Pb (RT)	0.56	-0.77	-0.72	-1.27
Rb (RT)	1.93	-0.79	-0.17	-1.04
S (RT)	0.32	0.07	0.47	0.72
Sr (RT)	0.28	0.70	-0.49	0.43
Ti (RT)	-0.36	-1.86	-1.32	-2.40 *
Tl (RT)	< #	#	< #	#
V (RT)	-0.05	-0.21	-0.39	-0.69
Zn (RT)	-0.30	-0.34	-0.36	-0.81
Al (AR)	0.41	0.94	0.40	0.34
As (AR)	0.33	0.15	-0.42	-0.16
Ba (AR)	0.50	0.95	0.53	0.47
Be (AR)	-0.27	0.78	0.30	0.51
Ca (AR)	-0.41	0.23	0.48	0.11
Cd (AR)	0.20	1.13	1.51	0.67
Co (AR)	0.23	0.01	0.36	-0.38
Cr (AR)	0.12	0.30	0.63	0.07
Cu (AR)	0.25	0.61	2.76 *	1.00
Fe (AR)	1.07	0.41	-0.07	-0.91
Hg (AR)	-1.59	-0.53	-1.58	-0.59
K (AR)	-0.81	0.85	1.14	0.64
Li (AR)	#	#	#	#
Mg (AR)	-0.20	-0.39	0.18	-1.01
Mn (AR)	0.87	0.04	0.40	-0.43
Mo (AR)	0.64	-0.88	-1.28	-1.29
Na (AR)	-1.60	0.67	0.73	0.01
Ni (AR)	4.27 **	0.14	0.61	0.07

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
GLAGC (327) (cont.)				
P (AR)	-0.58	-0.60	-0.27	-0.56
Pb (AR)	0.75	-0.41	0.01	-0.62
S (AR)	-0.91	-0.01	0.03	-0.32
Sr (AR)	0.48	0.75	1.38	0.76
Ti (AR)	0.50	0.62	1.29	0.31
V (AR)	0.02	0.96	0.58	0.13
Zn (AR)	-1.04	-0.41	-0.51	-0.62
pH - H2O (SC)	1.31	0.95	0.97	0.48
pH - KCl (SC)	-0.07	0.89	0.82	1.09
TC=Total C (org.+inorg.) (SC)	-0.52	-0.73	0.54	0.36
TIC=Tot.Inorg C(CaCO3) (SC)	< #	< #	< #	0.13
TOC=Total Org. C (SC)	0.27	-0.30	0.44	0.18
Moisture-content (OD)	0.71	1.07	1.62	0.42
Ca (BC)	-	-	-	#
CEC (BC)	-	-	-	#
K (BC)	-	-	-	#
Mg (BC)	-	-	-	#
Na (BC)	-	-	-	#
Al (AC)	< #	#	#	-
Ca (AC)	#	#	#	-
CEC (AC)	#	#	#	-
Fe (AC)	< #	< #	#	-
H (AC)	< #	< #	#	-
K (AC)	< #	#	#	-
Mg (AC)	#	#	#	-
Mn (AC)	#	#	#	-
Na (AC)	#	#	< #	-
SEEDLING (346)				
C - org others (W&B a.o.) (SC)	0.69	0.37	0.43	0.57
pH - CaCl2 (SC)	0.95	0.09	-0.57	-1.30
pH - H2O (SC)	0.96	0.12	0.01	-0.30
Al (BB)	#	#	#	#
Ca (BB)	#	#	#	#
CEC (BB)	#	#	#	#
Fe (BB)	#	#	#	#
K (BB)	#	#	#	#
Mg (BB)	#	#	#	#
Mn (BB)	#	#	#	#
Na (BB)	#	#	#	#
VILJAVUUSP (419)				
Al (AR)	-3.12 **	-0.75	-1.94	-1.07
As (AR)	-0.44	0.34	-0.49	-0.32
B (AR)	#	0.12	#	0.51
Ca (AR)	-0.75	-0.65	-0.61	-0.07
Cd (AR)	1.31	2.71 *	6.58 **	5.97 **
Cr (AR)	-1.58	-1.26	-1.30	-1.50
Cu (AR)	-0.42	-0.34	-0.52	-0.58
Fe (AR)	-1.40	0.69	-0.77	0.11
Hg (AR)	-0.46	57.68 **	-0.59	-0.90
K (AR)	-0.29	-0.41	-0.97	-0.15
Mg (AR)	-0.80	-0.14	-0.70	-0.06
Mn (AR)	-1.10	0.01	-1.07	0.41
Mo (AR)	-1.98	-1.47	-1.04	-1.20
Ni (AR)	0.27	-0.33	0.60	-0.46
P (AR)	0.30	0.54	0.24	-15.70 **
Pb (AR)	-1.08	-1.30	-1.18	-1.56
Sb (AR)	22.11 **	12.06 **	12.77 **	11.25 **
V (AR)	-0.57	-0.27	-0.35	-0.46
Zn (AR)	0.82	-0.47	-0.62	-0.54
CHRON (424)				
As (AE)	-0.51	-0.78	-0.51	-0.72
Cd (AE)	1.99	7.74 **	#	7.82 **
Cr (AE)	-0.61	-2.19 *	-1.19	-1.47

(cont)

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Sample	997	863	865	962
CHRON (424) (cont.)				
Cu (AE)	2.34 *	1.47	2.18 *	2.52 *
N (AE)	2.94 *	-0.28	-0.37	-0.71
Ni (AE)	0.29	-1.79	-0.07	-0.82
Pb (AE)	-0.09	-1.19	0.79	-0.43
Se (AE)	#	#	#	#
Zn (AE)	-0.56	-0.88	-0.44	-0.06
Org.matter (L.O.I.) (SC)	2.15 *	0.28	1.46	0.30
pH - CaCl2 (SC)	-1.32	-1.18	-1.16	-0.27
pH - H2O (SC)	-0.71	-0.83	-0.73	0.13
TC=Total C (org.+inorg.) (SC)	4.31 **	-0.73	-0.62	-0.67
B (M3)	-0.42	-0.79	-0.65	-1.41
Ca (M3)	2.55 *	-2.11 *	-1.87	-0.47
Cu (M3)	1.22	0.46	1.37	-1.03
Fe (M3)	-0.22	-0.99	-0.53	-0.89
K (M3)	3.65 **	-1.05	-3.31 **	-0.86
Mg (M3)	4.18 **	-1.63	-1.23	-1.11
Mn (M3)	0.97	-0.58	-3.10 **	-1.93
Na (M3)	1.33	0.18	0.57	0.18
P (M3)	2.41 *	0.31	0.48	-1.44
Zn (M3)	1.36	-0.42	-1.48	-0.73
K - NH4NO3 (1/5) (UK)	2.62 *	3.95 **	0.58	3.99 **
Mg - NH4NO3 (1/5) (UK)	1.61	2.24 *	1.04	0.79
P - NaHCO3 (1/20) (UK)	3.46 **	0.76	0.04	0.55
pH - H2O (2/5) (UK)	0.69	0.36	-0.42	0.50
ANAPBO (448)				
Al (RT)	-2.35 *	-4.23 **	-4.24 **	-5.09 **
Ba (RT)	-0.20	-1.69	0.13	-0.26
Be (RT)	#	#	#	#
Bi (RT)	#	#	#	#
Ca (RT)	0.31	-0.13	0.16	-0.49
Cd (RT)	1.97	-1.61	-0.70	-4.02 **
Co (RT)	6.88 **	4.62 **	9.34 **	5.02 **
Cr (RT)	1.24	0.36	1.67	0.83
Cu (RT)	0.61	1.04	0.90	0.53
Fe (RT)	0.48	-0.67	0.27	-0.27
Mg (RT)	0.21	-0.54	0.17	-0.54
Mn (RT)	0.50	0.29	0.36	0.37
Mo (RT)	-0.68	-1.11	-0.86	-0.95
Ni (RT)	1.34	-0.03	0.86	-0.50
Pb (RT)	-0.57	-2.50 *	-5.97 **	-4.09 **
Sn (RT)	0.09	-0.76	-1.24	0.47
Ti (RT)	-0.54	-0.89	-3.17 **	0.21
V (RT)	-0.07	-1.04	-0.45	-0.72
Zn (RT)	2.29 *	0.75	2.55 *	2.28 *
Al (AR)	-1.82	-1.81	0.18	-0.20
As (AR)	1.72	-2.63 *	-2.01 *	-2.60 *
Ba (AR)	0.48	0.39	1.88	1.15
Be (AR)	0.61	0.11	1.10	1.01
Bi (AR)	-	#	#	#
Ca (AR)	1.64	0.85	1.87	0.18
Cd (AR)	0.50	-3.18 **	-	-
Co (AR)	1.68	0.87	1.17	1.45
Cr (AR)	1.53	0.15	2.21 *	1.45
Cu (AR)	1.81	1.35	3.01 **	1.34
Fe (AR)	1.43	-0.14	0.66	0.75
Hg (AR)	-5.44 **	-2.48 *	-4.68 **	-2.87 *
Mg (AR)	1.12	0.08	1.56	0.82
Mn (AR)	2.16 *	0.93	1.17	0.92
Mo (AR)	-0.99	-1.41	-2.46 *	-1.29
Ni (AR)	1.44	0.42	1.94	0.75
Pb (AR)	0.41	-0.76	-2.28 *	-1.48
Sb (AR)	69.40 **	0.03	8.10 **	0.47
Se (AR)	15.48 **	-5.30 **	-2.55 *	-3.70 **
Sn (AR)	0.73	-1.47	2.12 *	1.27
Ti (AR)	2.72 *	0.72	4.75 **	1.77

(cont)

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Sample	997	863	865	962
ANAPBO (448) (cont.)				
V (AR)	0.72	0.14	1.21	0.97
Zn (AR)	4.39 **	1.54	4.41 **	4.89 **
PLZMBZEM (806)				
N (AE)	-0.59	-0.53	-0.42	-0.21
N - NH4 (as N) (CC)	-0.64	-0.15	-0.22	-0.07
N - NO3 (as N) (CC)	-0.57	-0.50	-0.25	0.19
IRRI (843)				
N - elementary (RT)	0.76	-0.30	-0.64	-0.82
N (AE)	0.85	0.80	1.42	0.97
C - org others (W&B a.o.) (SC)	-0.25	-0.74	-0.36	-0.71
Fraction < 2 µm (SC)	0.61	0.34	0.78	0.07
Fraction < 63 µm (SC)	3.58 **	0.49	0.94	0.66
Fraction > 63 µm (SC)	-3.01 **	-0.42	-1.10	-1.22
pH - CaCl2 (SC)	-0.73	-1.29	-1.16	-0.14
pH - H2O (SC)	-0.40	-1.89	-0.73	-0.30
pH - KCl (SC)	-0.65	-2.21 *	-1.98	-0.88
TC=Total C (org.+inorg.) (SC)	1.54	-0.56	-0.15	-0.27
Ca (AA)	1.00	0.79	1.16	3.51 **
CEC (AA)	0.06	-0.03	-0.13	-0.32
K (AA)	-0.15	0.23	0.93	0.38
Mg (AA)	0.30	0.29	0.05	1.70
Na (AA)	-0.48	-0.45	0.32	0.86
P - Bray (as P) (PHOS)	1.43	0.85	2.48 *	1.67
P - Olsen (as P) (PHOS)	-0.42	-0.99	-1.89	-0.79
SPASL (855)				
Al (RT)	-1.96	-0.54	-3.01 **	-4.83 **
As (RT)	45.34 **	13.68 **	25.56 **	15.19 **
Ca (RT)	-1.96	-6.39 **	-0.15	-3.60 **
Cd (RT)	11.93 **	10.92 **	25.79 **	6.07 **
Co (RT)	15.35 **	2.79 *	6.85 **	2.96 *
Cr (RT)	-1.20	-2.10 *	-1.56	-2.33 *
Cu (RT)	5.77 **	1.58	9.79 **	4.35 **
Fe (RT)	-1.57	-0.16	-3.46 **	-4.56 **
K (RT)	-2.16 *	-2.90 *	-1.86	-5.04 **
Mg (RT)	-0.54	-2.47 *	-1.83	-3.21 **
Mn (RT)	-2.18 *	-2.27 *	-1.44	-4.74 **
Mo (RT)	2.66 *	0.96	1.57	2.32 *
N - elementary (RT)	-0.10	0.48	-0.19	-0.28
Na (RT)	-0.71	-1.54	-2.41 *	-1.23
Ni (RT)	-0.26	-1.28	0.37	-0.86
P (RT)	-0.80	-2.52 *	-2.43 *	-2.72 *
Pb (RT)	3.74 **	-4.42 **	-8.32 **	-1.28
S (RT)	-0.07	0.86	1.66	-0.17
Se (RT)	#	78.42 **	#	#
Si (RT)	-45.84 **	-40.43 **	-59.22 **	-48.66 **
Sr (RT)	-0.69	-1.60	-1.32	-0.94
Zn (RT)	7.09 **	1.86	10.88 **	6.72 **
Fraction < 2 µm (SC)	11.19 **	-0.65	-0.45	0.63
Fraction < 63 µm (SC)	1.04	-0.56	-0.76	-1.41
Fraction > 63 µm (SC)	-0.82	1.18	0.75	2.07 *
Org.matter (L.O.I.) (SC)	-0.06	-3.06 **	-0.83	-1.65
pH - CaCl2 (SC)	-1.17	-0.85	-0.80	-0.63
pH - H2O (SC)	-1.01	-1.39	-0.58	-0.60
TC=Total C (org.+inorg.) (SC)	0.43	0.31	0.25	0.26
Al (AC)	#	#	#	#
Ca (AC)	#	#	#	#
CEC (AC)	#	#	#	#
Fe (AC)	#	#	#	-
K (AC)	#	#	#	#
Mg (AC)	#	#	#	#
Mn (AC)	#	#	#	#
Na (AC)	#	#	#	#
P - Bray (as P) (PHOS)	0.16	-0.55	0.49	-0.61

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Sample	997	863	865	962
VBBH (859)				
C - org others (W&B a.o.) (SC)	2.87 *	0.00	-1.23	6.75 **
EC-SC (ISO 11265) (SC)	0.34	0.13	1.06	0.61
Fraction < 2 µm (SC)	-0.24	0.84	0.63	1.24
pH - KCl (SC)	0.80	0.46	0.90	1.16
TC=Total C (org.+inorg.) (SC)	0.20	-0.79	-1.03	-0.88
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	20.62 **
TOC=Total Org. C (SC)	0.87	-0.26	-0.10	-0.45
N - NH4 (as N) (KCL)	#	#	#	#
N - NO3 (as N) (KCL)	#	#	#	#
Al - Ox (PHOS)	#	#	#	#
Fe - Ox (PHOS)	#	#	#	#
P - Ox (PHOS)	#	#	#	#
P - AL (as P) (PHOS)	#	#	#	#
LAB607 (862)				
Cd (NA)	11.28 **	23.62 **	26.46 **	22.18 **
Cr (NA)	4.33 **	-0.85	0.98	-1.94
Cu (NA)	1.99	3.88 **	3.66 **	2.14 *
Mo (NA)	72.41 **	32.99 **	27.83 **	< #
Ni (NA)	2.66 *	-4.27 **	0.40	-4.17 **
Pb (NA)	-0.32	-6.48 **	-3.40 **	-7.10 **
Zn (NA)	3.53 **	-2.41 *	0.25	-1.66
WBT (866)				
Al (RT)	1.09	-0.04	0.35	0.64
Ba (RT)	-0.25	-1.68	-1.16	-1.21
Ca (RT)	0.59	0.55	-0.06	1.90
Cr (RT)	4.72 **	6.41 **	7.04 **	6.23 **
Fe (RT)	2.33 *	3.22 **	4.67 **	4.20 **
K (RT)	7.41 **	6.62 **	5.58 **	10.23 **
Mg (RT)	0.76	0.83	0.85	1.70
Mn (RT)	113.39 **	95.02 **	75.34 **	62.20 **
Na (RT)	3.86 **	44.27 **	12.79 **	1.47
S (RT)	4.45 **	14.64 **	12.24 **	4.56 **
Si (RT)	-0.40	-2.24 *	-0.62	-0.95
Zn (RT)	-1.64	-1.66	-3.05 **	-5.21 **
V (AE)	3.42 **	22.30 **	10.96 **	35.64 **
C - org others (W&B a.o.) (SC)	1.05	1.43	1.72	1.76
Fraction < 16 µm (SC)	-	1.86	2.77 *	3.09 **
Fraction < 2 µm (SC)	-	1.29	1.72	2.53 *
Fraction < 63 µm (SC)	0.34	0.15	0.45	0.24
Org.matter (L.O.I.) (SC)	-0.44	-3.95 **	-1.89	-1.51
TC=Total C (org.+inorg.) (SC)	-0.23	-0.54	-2.01 *	-0.98
PASCAAnalab (870)				
N (AE)	0.69	0.34	0.39	0.35
C - org others (W&B a.o.) (SC)	0.26	0.34	0.61	0.43
Org.matter (L.O.I.) (SC)	0.79	0.70	0.47	0.96
pH - H2O (SC)	-0.91	-0.47	-0.50	-0.48
Ca (AA)	0.53	0.32	-0.55	-0.56
CEC (AA)	0.31	-0.55	-0.39	-0.48
K (AA)	1.94	0.16	0.24	0.26
Mg (AA)	0.26	0.56	0.14	-0.06
Na (AA)	0.76	0.59	0.24	-0.01
Cu (M3)	0.62	-1.65	-0.17	-1.25
Fe (M3)	-0.85	0.00	0.89	-0.01
Mn (M3)	-0.03	-0.48	-0.37	-0.14
Zn (M3)	-0.25	0.79	0.86	0.06
P - Olsen (as P) (PHOS)	1.49	1.15	0.09	0.35
CHEMHAL (877)				
As (AR)	1.50	-0.73	-0.23	-1.12
Cd (AR)	-0.25	0.18	1.76	1.15
Cr (AR)	-1.81	0.51	-0.81	0.41
Cu (AR)	-1.27	0.88	2.86 *	-0.62
Hg (AR)	<	-2.69 < *	-3.23 < **	-2.45 < * (cont)

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Sample	997	863	865	962
CHEMHAL (877) (cont.)				
Ni (AR)	-1.55	-2.50 *	-2.99 *	-1.95
Pb (AR)	-1.15	-0.28	1.35	0.09
Zn (AR)	-2.40 *	-1.39	-1.27	-1.48
pH - CaCl2 (SC)	-0.33	-0.46	0.10	0.60
TC=Total C (org.+inorg.) (SC)	-0.74	0.12	0.22	1.22
TOC=Total Org. C (SC)	-0.18	0.42	-0.30	0.88
LABAMB (878)				
Hg (AE)	-0.67	-0.86	0.18	-0.74
N (AE)	-0.84	1.34	1.77	1.97
P (AE)	-2.55 *	-1.36	-1.36	-0.22
Ag (AR)	< #	< #	< #	< #
Al (AR)	-1.56	-1.42	-2.07 *	-1.63
As (AR)	-0.05	-0.44	-0.77	0.10
B (AR)	#	-0.58	#	-0.42
Ba (AR)	-0.47	-0.82	-0.38	-0.20
Be (AR)	-1.14	-0.06	-1.52	-0.74
Ca (AR)	1.37	0.08	0.33	-0.75
Cd (AR)	-0.10	-0.07	-0.36	0.04
Co (AR)	-0.78	0.36	-1.59	-0.38
Cr (AR)	-0.17	-0.05	-0.57	-0.26
Cu (AR)	-1.52	-0.59	-4.11 **	-1.32
Fe (AR)	0.07	-0.32	-0.69	-0.91
Hg (AR)	<	<	<	<
K (AR)	-0.86	-1.50	-0.64	-1.24
Li (AR)	#	#	#	#
Mg (AR)	0.34	-0.24	-0.12	-0.84
Mn (AR)	0.58	-0.39	-0.54	-0.85
Mo (AR)	-2.08 *	-0.58	-0.69	-0.58
Na (AR)	1.38	0.21	0.04	0.38
Ni (AR)	-0.47	-0.61	-0.60	-0.09
P (AR)	-1.12	-0.41	-1.51	-1.03
Pb (AR)	-0.54	-0.04	-0.65	-0.14
Sb (AR)	2.23 *	0.91	0.72	0.52
Se (AR)	0.41	1.59	0.74	1.77
Sn (AR)	0.87	0.44	-0.03	-0.49
Sr (AR)	0.80	-0.29	-0.24	-0.60
Ti (AR)	-0.60	-0.51	-0.24	-0.70
Tl (AR)	< #	-0.53	-0.11	-0.28
V (AR)	-1.31	-0.56	-0.64	-0.54
Zn (AR)	-0.21	-0.33	-0.51	-1.39
C - org others (W&B a.o.) (SC)	-0.96	-1.70	-0.98	-1.61
EC-SC (ISO 11265) (SC)	-4.73 **	-1.90	-1.11	-3.50 **
Fraction < 16 µm (SC)	3.02 **	-2.15 *	-0.51	-0.28
Fraction < 2 µm (SC)	1.10	-4.44 **	-1.97	-3.47 **
Fraction < 63 µm (SC)	0.31	0.13	0.26	0.13
Fraction > 63 µm (SC)	-0.20	0.14	-0.36	-0.37
pH - H2O (SC)	0.05	-1.71	-1.07	-1.48
Al (BC)	#	#	#	-
Ca (BC)	#	#	#	#
CEC (BC)	#	#	#	#
K (BC)	#	#	#	#
Mg (BC)	#	#	#	#
Na (BC)	#	#	#	#
Cl (WS)	#	#	#	#
F (WS)	#	#	#	#
N - NO3 (as N) (WS)	#	#	#	#
P - Olsen (as P) (PHOS)	0.58	0.33	0.66	1.72
CRC (884)				
Al (AR)	3.40 **	4.49 **	5.98 **	5.24 **
As (AR)	0.06	-0.70	-0.78	-1.03
B (AR)	#	1.15	#	1.06
Ba (AR)	1.06	6.70 **	3.53 **	3.58 **
Be (AR)	<	3.32 **	2.13 *	1.89
Co (AR)	4.88 **	-1.03	0.78	-0.86

(cont)

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Sample	997	863	865	962
CRC (884) (cont.)				
Cr (AR)	1.19	1.73	2.55 *	1.55
Cu (AR)	0.25	-0.17	0.26	-0.50
Fe (AR)	2.56 *	1.91	0.91	0.64
Hg (AR)	<	69.86 **	<	<
K (AR)	7.66 **	7.77 **	8.94 **	5.89 **
Mg (AR)	1.50	3.32 **	2.74 *	1.54
Mn (AR)	3.12 **	-1.30	-0.69	-1.98
Ni (AR)	3.01 **	-0.02	0.00	-0.96
P (AR)	0.70	-0.22	0.19	-0.81
Pb (AR)	1.34	2.03 *	5.37 **	2.71 *
Si (AR)	#	#	#	#
Sn (AR)	-0.67	0.82	0.10	-0.14
V (AR)	1.06	1.79	2.21 *	1.84
Zn (AR)	0.99	0.33	0.60	0.11
pH - H2O (SC)	-1.06	-1.59	-0.90	-1.05
pH - KCl (SC)	-2.10 *	-2.13 *	-1.32	-1.07
CEC (BC)	#	#	#	#
CAC (885)				
As (AR)	-0.05	0.41	1.13	0.44
Be (AR)	<	-2.77 *	-0.61	-1.36
Cd (AR)	<	0.05	<	<
Co (AR)	<	-1.61	0.03	-0.86
Cr (AR)	0.61	-1.38	-1.52	-1.53
Cu (AR)	-0.93	-0.26	-0.92	-0.43
Mn (AR)	0.58	-0.91	-1.83	-0.41
Ni (AR)	0.60	0.01	-0.60	0.36
P (AR)	3.06 **	0.75	1.60	1.11
Pb (AR)	0.56	-0.34	-0.03	-0.31
Sn (AR)	-0.87	-0.03	0.42	-0.49
V (AR)	0.60	-1.07	-0.72	-1.00
Zn (AR)	-2.03 *	-0.99	-1.26	-0.69
C - org others (W&B a.o.) (SC)	3.75 **	1.24	-0.11	0.09
Fraction < 16 µm (SC)	-0.23	0.01	-1.03	-0.29
Fraction < 2 µm (SC)	-0.48	-3.95 **	-2.37 *	-3.70 **
Fraction < 63 µm (SC)	-0.09	0.94	0.17	1.06
Fraction > 63 µm (SC)	0.15	-1.11	-0.27	<
pH - H2O (SC)	-0.76	-2.30 *	-2.43 *	-1.62
CEC (BC)	#	#	#	#
RLD (893)				
Org.matter (L.O.I.) (SC)	0.65	4.50 **	1.09	1.16
pH - KCl (SC)	-0.21	0.29	-0.09	-0.65
K - HCl (as K) (OD)	#	#	#	-
Mg - NaCl (as Mg) (OD)	#	#	#	-
N - NH4 (as N) (KCL)	-	-	-	#
N - NO3 (as N) (KCL)	-	-	-	#
P - AL (as P) (PHOS)	#	#	#	#
P - w (as P) (PHOS)	#	#	#	#
LSF (895)				
N - elementary (RT)	0.76	-1.87	-0.80	0.12
TC=Total C (org.+inorg.) (SC)	0.34	-2.78 *	-1.44	3.54 **
Al (M3)	0.40	0.28	0.07	-2.38 *
B (M3)	3.84 **	2.75 *	3.53 **	0.98
Ca (M3)	0.33	-0.19	0.38	-0.66
Cu (M3)	-0.16	0.30	0.15	0.32
Fe (M3)	0.67	0.14	0.21	0.83
K (M3)	-0.54	0.26	-2.75 *	0.40
Mg (M3)	0.39	0.01	0.83	0.31
Mn (M3)	0.05	0.15	1.21	0.48
P (M3)	0.59	-0.56	0.78	0.54
Zn (M3)	0.12	-1.48	-0.62	0.71
P - Olsen (as P) (PHOS)	4.45 **	-2.17 *	0.35	0.11

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Sample	997	863	865	962
RF-R&D (905)				
N (AE)	-0.92	-0.56	-0.97	-0.28
C - org others (W&B a.o.) (SC)	0.47	-0.88	-0.79	0.57
Fraction < 2 µm (SC)	-0.43	-	1.16	0.09
Fraction < 63 µm (SC)	-0.58	-	0.75	0.32
Fraction > 63 µm (SC)	0.57	-	-0.90	-0.68
Org.matter (L.O.I.) (SC)	5.32 **	4.36 **	4.16 **	2.11 *
Moisture-content (OD)	-0.28	-1.16	-0.35	-0.71
P - Bray (as P) (PHOS)	-0.58	0.27	-0.34	-0.28
LABGLEB (922)				
N (AE)	-	0.04	-	0.25
S (AE)	-	0.60	-	1.85
pH - H2O (SC)	-	-	0.74	-
pH - KCl (SC)	-	-	0.16	-
TC=Total C (org.+inorg.) (SC)	-	-0.79	-	-0.62
Ca (AA)	0.23	-	-	-
K (AA)	0.31	-	-	-
Mg (AA)	0.91	-	-	-
Na (AA)	0.05	-	-	-
RIDIK (926)				
Ag (RT)	< #	< #	< #	< #
Al (RT)	-0.83	-1.44	0.05	0.61
As (RT)	0.39	-0.15	0.06	-0.04
Ba (RT)	0.87	-0.55	-0.52	-0.44
Br (RT)	0.13	0.49	0.15	0.24
Ca (RT)	-0.44	-1.31	-0.52	0.14
Cd (RT)	<	<	<	<
Co (RT)	<	-0.09	-0.03	-0.25
Cr (RT)	-1.35	-0.35	-0.67	-0.45
Cu (RT)	-0.01	0.07	-0.01	1.07
Fe (RT)	-0.53	-0.52	0.23	-0.88
Ga (RT)	0.45	-0.31	0.22	-0.32
Hg (RT)	<	<	<	<
K (RT)	0.28	-0.05	-0.10	-0.60
Mg (RT)	0.19	-2.63 *	-0.12	-0.30
Mn (RT)	-0.05	-0.18	0.09	-1.23
Mo (RT)	<	<	<	<
Na (RT)	0.85	0.81	0.30	-2.61 *
Nb (RT)	-0.56	-0.21	0.19	-0.11
Ni (RT)	-0.16	-0.15	0.21	-0.02
P (RT)	0.92	-1.37	-0.37	-2.77 *
Pb (RT)	0.05	0.49	-0.09	0.09
Rb (RT)	0.02	-0.20	-0.17	0.17
S (RT)	0.49	-0.38	-0.25	-2.10 *
Sb (RT)	<	<	<	<
Se (RT)	< #	0.36	< #	-
Si (RT)	0.93	-0.02	0.13	0.44
Sn (RT)	1.23	-2.80 *	0.74	-2.33 *
Sr (RT)	0.25	-0.74	-0.11	0.17
Th (RT)	1.03	-0.14	0.61	0.69
Ti (RT)	0.53	-0.75	-0.23	0.17
Tl (RT)	#	#	#	#
U (RT)	<	-0.16	-1.20	-0.26
V (RT)	0.48	0.76	1.14	-0.03
W (RT)	5.23 **	1.59	-0.70	2.72 *
Y (RT)	0.14	0.03	-1.61	-1.08
Zn (RT)	-0.58	-0.45	0.03	-0.81
Zr (RT)	1.05	-0.35	-0.06	-1.23
WANDSCH (958)				
Cd (NA)	0.88	-0.33	0.25	-0.37
Co (NA)	-0.84	-0.14	-0.16	-0.04
Cr (NA)	-0.97	-0.27	-0.56	-0.03
Cu (NA)	8.44 **	-0.52	0.52	-0.62
Hg (NA)	-0.45	-1.39	-1.43	-0.32

(cont)

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Sample	997	863	865	962
WANDSCH (958) (cont.)				
Mo (NA)	0.70	11.21 **	3.83 **	#
Ni (NA)	0.59	0.70	1.12	0.32
Pb (NA)	0.53	-0.45	-0.36	-1.00
Tl (NA)	#	#	#	#
Zn (NA)	-0.45	-0.61	-0.17	0.31
Cd (SN)	0.20	-0.21	-0.05	< #
Cu (SN)	#	-0.53	< #	-0.72
Ni (SN)	-0.07	-0.29	0.02	#
Pb (SN)	< #	< #	< #	< #
Zn (SN)	#	-1.69	0.95	< #
RHODE (960)				
N (AE)	-0.38	-3.38 **	-1.34	-0.76
C - org others (W&B a.o.) (SC)	0.01	-0.30	0.58	-0.01
pH - H2O (SC)	-0.45	-1.42	-1.13	-0.48
Al (M3)	1.92	4.72 **	7.44 **	0.82
B (M3)	0.25	-0.12	-0.43	0.36
Ca (M3)	1.38	0.62	1.41	1.55
Cu (M3)	-1.17	-1.05	-0.62	0.84
Fe (M3)	1.08	1.46	0.41	1.29
K (M3)	0.20	0.65	0.42	0.91
Mg (M3)	1.62	1.33	3.31 **	2.39 *
Mn (M3)	1.04	1.54	1.79	1.30
Na (M3)	2.90 *	5.74 **	3.80 **	6.14 **
P (M3)	2.03 *	0.75	0.41	2.59 *
Zn (M3)	1.67	0.72	1.02	0.74
P - Olsen (as P) (PHOS)	1.34	-1.23	1.37	0.25
CHEZL (961)				
Ag (RT)	< #	< #	< #	< #
Al (RT)	-0.75	-1.20	-0.71	-0.91
As (RT)	0.15	-1.10	-0.34	-0.37
Ba (RT)	0.05	-1.97	-1.04	-0.99
Be (RT)	< #	#	#	#
Ca (RT)	-0.44	-0.91	-0.16	-0.75
Cd (RT)	0.32	-0.18	0.53	0.28
Co (RT)	0.75	-1.69	-1.05	2.79 *
Cr (RT)	-1.19	-2.56 *	-1.21	-2.28 *
Cu (RT)	-0.67	-0.88	-0.60	-0.67
Fe (RT)	-0.72	-1.17	-0.87	-0.65
Hg (RT)	-0.53	0.19	0.14	0.80
K (RT)	-0.36	-0.46	-0.39	-0.58
Mg (RT)	3.09 **	-0.83	-1.06	-0.64
Mn (RT)	-0.86	0.29	0.35	0.14
Mo (RT)	<	<	<	<
Na (RT)	2.39 *	1.42	2.92 *	1.26
Ni (RT)	-0.40	-1.45	-0.55	-0.67
P (RT)	-0.22	-0.32	-0.57	-0.10
Pb (RT)	0.05	-1.03	-0.09	-0.57
S (RT)	-3.07 **	-4.48 **	-1.66	0.16
Sb (RT)	<	-1.57	<	<
Se (RT)	< #	1.24	< #	< #
Si (RT)	-0.06	-2.36 *	-1.41	-1.47
Sn (RT)	-2.14 < *	-1.03	-1.49	-1.93
Sr (RT)	-7.20 **	-5.28 **	-4.06 **	-1.22
Ti (RT)	-0.84	-1.09	-0.64	-0.64
Tl (RT)	#	#	#	#
V (RT)	0.13	-1.89	-0.74	-1.01
Zn (RT)	0.27	-0.92	0.61	0.29
Org.matter (L.O.I.) (SC)	6.69 **	7.51 **	5.61 **	2.66 *
TOC=Total Org. C (SC)	0.92	1.32	-1.36	0.93
Moisture-content (OD)	0.20	-0.62	0.05	0.73

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Sample	997	863	865	962
MCA (970)				
C - org others (W&B a.o.) (SC)	0.59	-0.14	-1.70	0.57
Fraction < 16 µm (SC)	-2.54 *	-10.66 **	-4.86 **	-4.53 **
Fraction < 2 µm (SC)	4.18 **	1.22	-0.83	-1.71
Fraction < 63 µm (SC)	15.27 **	-22.69 **	-0.75	-10.97 **
pH - H2O (SC)	-2.12 *	0.30	1.31	-4.02 **
pH - KCl (SC)	-3.26 **	-0.32	-0.25	-2.57 *
Ca (AA)	-8.04 **	-8.07 **	-6.86 **	-3.03 **
CEC (AA)	-3.39 **	-4.38 **	-4.53 **	-6.09 **
K (AA)	13.87 **	-10.18 **	-0.49	-5.29 **
Mg (AA)	-1.20	-4.71 **	-5.13 **	-5.60 **
Na (AA)	1.78	-2.36 *	5.02 **	-0.62
P - Bray (as P) (PHOS)	-1.66	-0.45	-1.31	0.35
AGROADGAZA (971)				
N - NO3 (as N) (CC)	1.37	1.60	-0.46	3.95 **
C - org others (W&B a.o.) (SC)	1.09	1.26	1.39	1.18
EC-SC (ISO 11265) (SC)	0.76	1.03	1.22	0.28
Fraction < 16 µm (SC)	0.38	-1.97	-0.09	0.39
Fraction < 2 µm (SC)	-0.75	-3.29 **	-1.72	-1.54
Fraction < 63 µm (SC)	1.36	-4.00 **	-0.28	-0.59
Fraction > 63 µm (SC)	-1.10	6.47 **	0.23	0.77
pH - H2O (SC)	0.76	0.71	0.35	0.88
TIC=Tot.Inorg C(CaCO3) (SC)	9.68 **	<	< #	0.04
K (AA)	-0.70	-0.13	0.30	-0.01
Mg (AA)	-0.89	-0.02	3.64 **	0.18
Cu (CAT)	0.59	0.20	-0.11	0.36
Fe (CAT)	-0.21	-0.58	-12.45 **	1.21
Mn (CAT)	0.15	-0.93	-0.58	0.03
Zn (CAT)	1.66	-1.25	0.62	1.39
P - Olsen (as P) (PHOS)	0.64	-0.52	-0.43	0.10
SAC-CAL (973)				
N (AE)	0.33	0.96	0.50	0.61
As (AR)	0.49	1.41	2.49 *	2.25 *
Ca (AR)	-0.41	0.79	0.33	-0.46
Cd (AR)	-0.70	0.29	0.26	0.04
Cr (AR)	-1.27	-0.91	-0.14	-0.49
Cu (AR)	-0.72	-1.82	-0.18	-1.39
Fe (AR)	-0.66	-1.22	-0.21	-1.58
Hg (AR)	0.53	0.91	0.52	0.72
K (AR)	0.56	-0.42	-0.54	0.11
Mo (AR)	<	<	1.19	<
Ni (AR)	-0.98	-1.41	0.27	-0.73
P (AR)	0.42	-0.95	0.68	-0.91
Pb (AR)	-0.52	0.57	0.18	0.40
Se (AR)	1.28	3.72 **	1.48	3.70 **
Zn (AR)	-1.17	0.11	0.39	0.46
Org.matter (L.O.I.) (SC)	-0.10	0.20	0.04	3.22 **
pH - CaCl2 (SC)	-0.59	-0.13	0.01	-0.27
TOC=Total Org. C (SC)	0.36	2.05 *	-0.19	2.95 *
B - Hot water (OD)	#	#	#	#
Moisture-content (OD)	-1.69	-2.15 *	-0.62	-1.25
K - NH4NO3 (1/5) (UK)	-0.21	-0.57	-0.91	-1.24
Mg - NH4NO3 (1/5) (UK)	-1.05	-1.44	-1.86	-3.58 **
P - NaHCO3 (1/20) (UK)	0.08	-0.08	-0.10	-0.83
OPBLab (975)				
C - elementary (RT)	-0.36	-0.25	-1.21	-0.94
N - elementary (RT)	-0.97	0.24	-0.01	-1.13
S (RT)	-2.23 *	1.23	0.67	-1.88
AGROLAB (977)				
Hg (AE)	0.66	0.68	0.72	1.20
As (AR)	-0.67	1.06	2.18 *	2.19 *
Ca (AR)	-0.75	-0.23	-2.83 *	0.93
Cd (AR)	1.25	1.64	-0.17	0.42

(cont)

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Sample	997	863	865	962
AGROLAB (977) (cont.)				
Cr (AR)	0.58	0.26	0.66	0.29
Cu (AR)	1.52	-0.13	2.59 *	1.76
Fe (AR)	0.10	0.00	-0.58	-0.35
Mg (AR)	-0.39	0.59	-0.13	0.98
Mn (AR)	-0.29	0.39	0.18	0.98
Ni (AR)	0.69	-0.22	-0.60	-0.65
P (AR)	-0.44	0.19	-1.97	0.11
Pb (AR)	-0.14	0.74	0.08	0.82
S (AR)	-2.04 *	-0.44	-1.27	0.29
Zn (AR)	0.57	2.06 *	1.51	2.82 *
pH - KCl (SC)	0.01	0.54	0.57	0.28
TC=Total C (org.+inorg.) (SC)	-1.58	0.76	-0.57	0.66
TIC=Tot.Inorg C(CaCO3) (SC)	0.07	1.88	#	1.21
TOC=Total Org. C (SC)	-0.70	-0.28	-0.30	-0.24
Moisture-content (OD)	1.28	0.84	1.22	1.18
N - NH4 (as N) (KCL)	#	#	#	#
N - NO3 (as N) (KCL)	#	#	#	#
P - AL (as P) (PHOS)	#	#	#	#
LS-MRC (978)				
K (AE)	12.04 **	-1.08	-0.46	-0.37
N (AE)	0.28	-0.94	1.38	-1.44
P (AE)	-2.00 *	-1.92	-0.88	-1.92
C - org others (W&B a.o.) (SC)	-1.04	0.10	-0.46	-2.62 *
pH - H2O (SC)	3.12 **	0.12	-0.79	-1.05
pH - KCl (SC)	5.15 **	7.78 **	5.43 **	0.70
Ca (AA)	4.88 **	-0.46	7.18 **	-0.42
CEC (AA)	-0.39	-0.30	-0.23	-0.57
K (AA)	2.05 *	0.05	2.52 *	-0.09
Mg (AA)	-1.82	-0.39	-1.79	-0.84
Na (AA)	-0.48	-0.45	-0.79	-0.03
P - Bray (as P) (PHOS)	0.14	-1.00	-0.79	0.54
ELEMENT (980)				
Cd (NA)	4.66 **	-3.33 **	-1.09	1.15
Co (NA)	13.05 **	-1.35	0.87	0.06
Cr (NA)	0.60	1.31	-0.30	0.13
Cu (NA)	8.48 **	1.22	1.50	6.16 **
Hg (NA)	0.31	0.09	0.58	0.07
Ni (NA)	-2.55 *	-0.84	-0.79	0.44
Pb (NA)	-0.72	0.88	-1.74	-0.57
Zn (NA)	16.81 **	-0.81	5.40 **	3.74 **
EALG (981)				
pH - H2O (SC)	0.20	-2.13 *	-1.58	-1.48
Ca (AA)	-1.58	-0.04	-0.97	-0.40
K (AA)	<	0.01	-1.12	-0.69
Mg (AA)	-0.98	0.32	-0.95	-0.86
Na (AA)	<	0.00	<	<
Cu (CAT)	-1.70	0.59	-0.34	-1.71
Fe (CAT)	-0.93	0.29	-0.76	-0.66
Mn (CAT)	-2.13 *	-0.78	0.69	-1.15
Zn (CAT)	-0.84	-0.48	-0.06	-0.79
P - Olsen (as P) (PHOS)	-0.47	0.60	-0.54	0.08
H62B12 (983)				
Cd (NA)	22.78 **	9.76 **	14.82 **	4.12 **
Cr (NA)	1.34	0.94	0.46	0.91
Cu (NA)	-2.67 *	-2.20 *	-2.78 *	-0.32
Ni (NA)	-3.61 **	1.01	0.13	1.20
Pb (NA)	16.25 **	0.89	0.63	-1.09
Zn (NA)	5.37 **	0.14	0.50	0.81

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Sample	997	863	865	962
LDAR02 (984)				
Al (RT)	0.23	0.23	-0.98	-0.64
Co (RT)	5.47 **	4.04 **	4.85 **	3.76 **
Mo (RT)	<	<	<	<
P (RT)	-0.31	-0.36	-0.84	-0.38
Pb (RT)	-1.18	-0.63	-2.32 *	-1.09
As (AR)	-1.02	-0.14	0.44	0.27
Co (AR)	0.48	0.07	0.03	0.18
Mo (AR)	<	3.90 **	2.25 *	<
Se (AR)	<	-0.76	<	-0.02
EC-SC (ISO 11265) (SC)	0.06	-0.41	-0.52	-0.64
Moisture-content (OD)	-0.68	-0.17	-0.40	-0.53
Ca (CH)	#	#	#	#
CEC (CH)	#	#	#	#
K (CH)	#	#	#	#
Mg (CH)	#	#	#	#
Na (CH)	#	#	#	#
Cu (CAT)	-0.35	-0.47	-0.65	-0.05
Fe (CAT)	0.42	-0.74	0.48	-0.53
Mn (CAT)	0.79	0.61	-0.72	0.92
Zn (CAT)	0.23	0.09	-0.31	0.28
ANGLIA (1000)				
K - NH4NO3 (1/5) (UK)	0.78	-0.94	0.09	-0.14
Mg - NH4NO3 (1/5) (UK)	0.21	-0.85	-0.54	-0.92
P - NaHCO3 (1/20) (UK)	0.08	-0.01	1.46	-0.53
pH - H2O (2/5) (UK)	-0.68	-0.47	0.29	1.46
ABER (1001)				
N - elementary (RT)	1.56	1.66	2.79 *	3.45 **
Org.matter (L.O.I.) (SC)	-0.02	0.60	0.28	0.48
pH - H2O (SC)	0.35	0.42	0.40	1.07
Moisture-content (OD)	-0.30	0.05	0.22	0.45
P - Olsen (as P) (PHOS)	-1.24	-0.30	0.58	-0.63
P - NaHCO3 (1/20) (UK)	0.36	-0.95	0.86	-0.40
pH - H2O (2/5) (UK)	3.56 **	2.10 *	1.00	3.06 **
NRM (1002)				
K - NH4NO3 (1/5) (UK)	-1.15	-2.00 *	-0.85	-0.43
Mg - NH4NO3 (1/5) (UK)	0.31	-0.33	0.60	-0.36
P - NaHCO3 (1/20) (UK)	-1.06	-1.10	-0.39	-1.50
pH - H2O (2/5) (UK)	0.00	-0.06	-1.13	-0.86
HCFR (1003)				
P - Olsen (as P) (PHOS)	-0.08	-0.52	-1.46	-0.50
K - NH4NO3 (1/5) (UK)	3.04 **	2.77 *	2.19 *	5.55 **
Mg - NH4NO3 (1/5) (UK)	0.99	2.05 *	0.14	1.64
P - NaHCO3 (1/20) (UK)	1.86	0.76	-0.67	1.35
pH - H2O (2/5) (UK)	0.69	0.61	0.72	0.40
EURO (1004)				
K - NH4NO3 (1/5) (UK)	-0.21	0.05	0.09	0.21
Mg - NH4NO3 (1/5) (UK)	0.21	0.65	0.14	0.03
P - NaHCO3 (1/20) (UK)	-0.64	0.50	4.31 **	0.55
pH - H2O (2/5) (UK)	0.69	-0.47	0.29	-0.47
AUSTIN (1005)				
K - NH4NO3 (1/5) (UK)	0.50	0.67	0.58	0.91
Mg - NH4NO3 (1/5) (UK)	0.28	1.43	0.25	0.31
P - NaHCO3 (1/20) (UK)	-0.64	-1.79	0.04	-1.61
pH - H2O (2/5) (UK)	-2.05 *	1.19	1.00	0.50
OMEX (1006)				
K - NH4NO3 (1/5) (UK)	-0.07	0.54	0.58	0.85
Mg - NH4NO3 (1/5) (UK)	-0.34	0.47	0.02	-0.64
P - NaHCO3 (1/20) (UK)	0.79	3.56 **	16.41 **	0.81
pH - H2O (2/5) (UK)	-0.68	-0.47	-0.42	-0.47

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Sample	997	863	865	962
FAST (1007)				
K - NH4NO3 (1/5) (UK)	0.34	0.11	-0.64	0.15
Mg - NH4NO3 (1/5) (UK)	-1.28	-1.20	-1.50	-2.82 *
P - NaHCO3 (1/20) (UK)	0.40	0.53	0.04	-0.77
pH - H2O (2/5) (UK)	0.69	1.27	0.93	0.11
SPAR (1008)				
K - NH4NO3 (1/5) (UK)	0.85	1.22	0.95	2.24 *
Mg - NH4NO3 (1/5) (UK)	0.99	0.49	0.93	0.98
P - NaHCO3 (1/20) (UK)	-0.67	-0.57	-0.10	0.17
pH - H2O (2/5) (UK)	0.00	-0.89	-1.55	1.56
ALLIAN (1009)				
K - NH4NO3 (1/5) (UK)	-0.78	-0.82	-0.65	-0.14
Mg - NH4NO3 (1/5) (UK)	-0.11	-0.29	-0.54	-0.26
P - NaHCO3 (1/20) (UK)	-0.81	-1.28	-0.67	0.28
pH - H2O (2/5) (UK)	5.34 **	1.44	0.43	-0.67
LABZIB (1013)				
N (AE)	-0.94	-1.34	-1.60	-0.98
C - org others (W&B a.o.) (SC)	-0.66	-0.75	-0.42	-0.61
EC-SC (ISO 11265) (SC)	0.81	-0.81	1.22	-0.24
pH - CaCl2 (SC)	-0.59	1.46	1.77	-0.91
pH - H2O (SC)	0.30	0.36	0.12	-0.05
pH - KCl (SC)	-1.15	1.32	0.82	-0.84
TIC=Tot.Inorg C(CaCO3) (SC)	-	-	-	-0.09
P - AL (as P) (PHOS)	#	#	#	#
SMART-BGR (1016)				
N (AE)	-1.45	0.42	-0.86	-1.03
C - org others (W&B a.o.) (SC)	-2.36 *	1.83	0.58	-0.10
pH - H2O (SC)	0.71	-0.12	-0.67	-1.52
pH - KCl (SC)	-1.08	-1.96	-1.90	-0.99
K (AA)	-0.15	0.78	-0.97	1.16
Mg (AA)	-1.91	-2.48 *	-2.82 *	-2.29 *
Na (AA)	-0.80	-0.99	-0.42	-0.32
P - Bray (as P) (PHOS)	-1.10	-0.61	-0.85	-0.98
NISLT (1017)				
TOC=Total Org. C (SC)	2.90 *	1.23	4.14 **	5.91 **
Cu (M3)	35.75 **	3.16 **	7.94 **	14.09 **
Fe (M3)	1.12	11.52 **	1.52	3.31 **
P (M3)	-0.33	0.69	-3.40 **	2.96 *
Zn (M3)	1.76	0.61	1.40	1.05
GJRMGNJT (1020)				
K - NH4NO3 (1/5) (UK)	-0.07	0.42	0.09	-0.08
Mg - NH4NO3 (1/5) (UK)	-0.50	0.09	0.70	0.03
P - NaHCO3 (1/20) (UK)	0.08	0.50	1.46	0.01
pH - H2O (2/5) (UK)	8.90 **	-0.47	-0.42	-20.78 **
EASRETH (1022)				
pH - CaCl2 (SC)	0.36	1.46	1.30	0.18
Moisture-content (OD)	0.52	0.44	1.18	0.93
Cu (CAT)	-0.04	-0.20	0.67	0.31
Fe (CAT)	0.05	-0.55	-0.21	-0.62
Mn (CAT)	0.46	0.55	-0.14	0.07
Zn (CAT)	-0.01	0.17	0.23	0.28
FBO-0611 (1025)				
As (RT)	<	-0.29	-1.37	-0.44
Ba (RT)	-0.61	0.76	-0.61	0.43
Br (RT)	1.10	-0.28	2.47 *	1.60
Ca (RT)	11.35 **	-0.05	2.35 *	-0.25
Cd (RT)	<	0.60	<	<
Ce (RT)	<	-0.24	-0.04	-0.23
Cr (RT)	-1.38	0.15	-1.05	0.93

(cont)

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Sample	997	863	865	962
FBO-0611 (1025) (cont.)				
Cu (RT)	<	-0.10	<	-0.15
Fe (RT)	0.13	0.13	1.44	0.38
K (RT)	-1.02	-1.00	1.33	-0.42
La (RT)	1.27	0.32	1.13	0.62
Mn (RT)	1.37	-0.18	-0.25	-0.38
Ni (RT)	6.17 **	-0.44	3.26 **	0.54
Pb (RT)	-1.27	0.21	1.19	0.20
Rb (RT)	-0.79	0.03	0.80	0.17
Sb (RT)	2.07 *	-0.37	<	<
Sn (RT)	<	0.11	<	1.75
Sr (RT)	-1.22	0.29	0.53	0.10
Ti (RT)	1.61	0.55	2.21 *	0.27
V (RT)	1.94	-0.77	0.10	0.16
Y (RT)	<	0.75	<	1.30
Zn (RT)	<	0.43	0.50	-0.29
Zr (RT)	-0.56	0.20	0.64	-0.22
SUMIFRU (1026)				
C - org others (W&B a.o.) (SC)	-0.55	-0.40	-0.02	-0.73
pH - H2O (SC)	-1.16	-0.47	-0.05	-0.73
Moisture-content (OD)	-0.74	-2.15 *	-1.22	0.11
B (M3)	1.00	0.60	0.54	-0.57
Ca (M3)	-0.75	-1.70	-0.37	-0.89
Cu (M3)	-0.58	-1.12	0.06	-0.58
Fe (M3)	1.31	0.08	-0.21	0.94
K (M3)	1.72	-0.74	0.42	0.40
Mg (M3)	-0.23	-1.60	0.28	-0.64
Mn (M3)	1.23	0.15	0.91	1.25
Na (M3)	0.36	0.12	0.33	1.21
P (M3)	0.07	0.39	1.05	0.00
Zn (M3)	1.33	-0.81	0.51	-1.23
FARE (1028)				
C - elementary (RT)	1.20	0.66	0.20	1.00
N - elementary (RT)	1.32	0.63	0.20	0.67
delta 13C (OD)	#	#	#	#
delta 15N (OD)	#	#	#	#
MASHA (1029)				
As (RT)	-0.59	-0.15	0.06	-0.30
Ba (RT)	-0.76	0.48	0.08	0.19
Br (RT)	0.19	0.31	0.37	-0.05
Ce (RT)	0.34	0.48	0.90	0.36
Co (RT)	0.85	-0.03	0.60	0.15
Cr (RT)	0.41	-1.09	-0.34	-0.72
Cs (RT)	0.00	-0.02	-0.14	-0.38
Fe (RT)	0.71	-0.26	0.45	-0.41
La (RT)	-0.24	0.58	0.55	-0.15
Nd (RT)	1.06	1.22	1.41	0.87
Rb (RT)	0.02	0.50	0.61	0.17
Sb (RT)	-0.08	0.44	0.38	0.30
Sc (RT)	-0.14	0.00	0.06	-0.55
Th (RT)	0.24	0.45	0.98	0.67
U (RT)	0.37	0.77	0.96	0.97
Zn (RT)	0.24	0.25	1.06	0.76
CGEA (1030)				
Ag (AE)	#	#	#	#
As (AE)	5.74 **	-	3.07 **	1.51
Ba (AE)	11.71 **	-6.62 **	-5.14 **	-0.40
Ca (AE)	-12.58 **	-18.55 **	-11.24 **	-16.39 **
Cd (AE)	-6.47 **	1.82	#	0.77
Cr (AE)	-3.55 **	2.80 *	0.53	0.11
Cu (AE)	1.98	22.35 **	18.68 **	12.97 **
Mg (AE)	1.99	-5.81 **	-3.48 **	-14.99 **
Mn (AE)	3.27 **	13.53 **	2.46 *	8.51 **

(cont)

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Sample	997	863	865	962
CGEA (1030) (cont.)				
Ni (AE)	-0.75	7.62 **	-0.15	-1.90
Pb (AE)	3.82 **	7.16 **	3.33 **	1.61
Sn (AE)	#	#	#	#
Zn (AE)	-0.50	39.64 **	8.56 **	9.40 **
ETRR (1031)				
Al (RT)	-2.10 *	-4.44 **	-4.27 **	-6.10 **
As (RT)	-0.30	-1.00	9.83 **	-3.30 **
Ba (RT)	-0.76	-1.28	17.34 **	-5.30 **
Br (RT)	0.27	-1.80	25.77 **	-7.59 **
Ca (RT)	2.22 *	13.18 **	183.02 **	0.86
Ce (RT)	-0.66	-0.46	7.67 **	-3.85 **
Co (RT)	-0.20	-1.07	14.81 **	-4.59 **
Cr (RT)	-0.41	0.15	8.55 **	-2.48 *
Cs (RT)	-	-0.61	13.30 **	-5.16 **
Fe (RT)	0.04	0.56	26.07 **	-9.35 **
K (RT)	-0.45	-0.51	-0.23	0.27
La (RT)	-0.75	-0.88	10.59 **	-4.67 **
Mg (RT)	-	-1.47	2.28 *	-1.37
Mn (RT)	-1.90	-1.91	-2.50 *	-3.52 **
Na (RT)	-0.67	-1.69	-2.34 *	-0.84
Nd (RT)	0.13	-0.60	8.95 **	-4.16 **
Rb (RT)	0.21	-0.32	20.52 **	-5.98 **
Sb (RT)	0.26	1.75	4.08 **	0.67
Sc (RT)	-0.53	-0.66	35.93 **	-6.72 **
Th (RT)	-0.17	-0.14	9.03 **	-3.17 **
Ti (RT)	-0.52	-4.33 **	-3.75 **	-4.72 **
U (RT)	-	0.06	0.14	1.79
V (RT)	-1.03	-2.02 *	-2.34 *	-2.24 *
Zn (RT)	-	1.25	18.94 **	-3.97 **
Zr (RT)	-1.10	6.55 **	13.21 **	2.04 *
CNES (1033)				
Ag (RT)	-	#	#	#
Al (RT)	1.70	-2.55 *	-3.65 **	-3.30 **
As (RT)	0.94	1.86	2.02 *	2.62 *
Ba (RT)	1.76	-0.52	0.77	0.74
Br (RT)	1.21	4.79 **	2.00	3.18 **
Ca (RT)	-1.33	-3.65 **	-2.32 *	-1.91
Ce (RT)	-0.31	0.59	0.72	0.82
Co (RT)	-0.25	-0.60	-0.13	-0.48
Cr (RT)	0.98	1.60	1.74	2.44 *
Cs (RT)	0.89	0.83	0.80	1.36
Fe (RT)	0.81	0.05	0.47	1.38
K (RT)	1.66	1.78	1.53	2.29 *
La (RT)	1.09	2.82 *	2.56 *	3.10 **
Mg (RT)	66.31 **	89.75 **	48.35 **	65.38 **
Mn (RT)	3.04 **	4.22 **	0.92	5.00 **
Na (RT)	0.93	0.27	0.28	1.92
Nd (RT)	9.73 **	10.80 **	7.01 **	9.29 **
Rb (RT)	-1.29	0.50	0.42	0.78
Sb (RT)	0.95	2.15 *	1.44	3.21 **
Sc (RT)	0.78	2.06 *	3.94 **	2.39 *
Th (RT)	6.32 **	8.46 **	8.47 **	10.04 **
Ti (RT)	2.78 *	3.66 **	1.49	-0.23
U (RT)	-0.42	0.05	-0.62	0.35
V (RT)	-0.28	0.67	-0.81	0.00
Zn (RT)	0.81	2.84 *	2.46 *	4.70 **
CERT (1034)				
Al (RT)	0.71	-0.74	-0.41	-0.66
Ca (RT)	3.25 **	1.00	-	-0.33
Cr (RT)	0.38	-1.49	-0.45	-0.20
Fe (RT)	1.16	-1.51	-0.49	-0.38
K (RT)	0.94	-0.21	0.71	-0.39
La (RT)	0.90	0.74	0.76	0.72

(cont)

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Sample	997	863	865	962
CERT (1034) (cont.)				
Mn (RT)	0.57	-0.21	-0.63	0.03
Na (RT)	0.63	0.06	-0.30	0.30
Sc (RT)	0.92	-0.17	-0.12	-0.10
U (RT)	1.52	-0.80	-0.16	-1.72
V (RT)	0.68	-1.05	-1.30	0.10
NECSA (1035)				
Al (RT)	7.43 **	-14.95 **	-7.42 **	-13.79 **
Ba (RT)	-2.24 *	-0.72	1.63	-2.48 *
Ca (RT)	0.48	1.32	-0.92	-0.80
Cd (RT)	161.33 **	192.71 **	246.97 **	305.41 **
Ce (RT)	0.76	0.57	-0.19	-0.13
Co (RT)	0.90	-0.51	-0.40	-0.15
Cr (RT)	1.27	0.27	0.44	0.86
Cs (RT)	0.02	0.23	0.00	0.28
Fe (RT)	0.13	-4.51 **	-1.64	-2.07 *
K (RT)	-0.83	-1.92	-1.47	-2.78 *
Mn (RT)	1.66	0.80	0.38	1.20
Na (RT)	-0.76	-1.04	-1.44	-1.01
Pd (RT)	#	#	#	#
Rb (RT)	-0.25	-1.49	-1.93	-1.34
Sb (RT)	0.79	-0.01	0.24	0.25
Sc (RT)	-0.67	-1.59	-3.82 **	-2.23 *
Sr (RT)	-3.91 **	-3.44 **	-3.29 **	-1.08
Th (RT)	-0.08	-7.26 **	-0.90	-1.12
U (RT)	0.51	0.13	0.05	0.72
V (RT)	-1.42	-12.55 **	-7.12 **	-8.39 **
W (RT)	0.59	-0.53	-0.21	0.31
Zn (RT)	0.13	-0.16	-0.77	-0.02
LASPEE (1036)				
N - elementary (RT)	8.66 **	-1.32	2.09 *	0.36
P (RT)	-3.14 **	-7.02 **	-5.58 **	-7.40 **
Cr (AE)	9.12 **	12.59 **	20.92 **	8.82 **
Cu (AE)	-0.93	1.20	12.80 **	-4.56 **
Fe (AE)	-14.18 **	-14.74 **	-10.15 **	-8.37 **
Mn (AE)	-11.14 **	-9.21 **	-9.04 **	-16.87 **
Ni (AE)	-2.21 *	-3.73 **	4.13 **	-5.26 **
Pb (AE)	0.52	0.99	18.37 **	-0.99
Zn (AE)	14.56 **	3.00 *	28.41 **	4.12 **
C - org others (W&B a.o.) (SC)	1.67	1.49	0.13	3.34 **
Org.matter (L.O.I.) (SC)	1.40	-6.69 **	-7.30 **	-1.67
pH - H2O (SC)	-1.66	-1.48	-0.56	-0.77
pH - KCl (SC)	-2.24 *	-1.01	-0.83	-0.69
Moisture-content (OD)	-0.99	-0.83	-0.45	-1.05
Ca (AA)	-6.65 **	-5.74 **	-5.03 **	-2.35 *
CEC (AA)	-0.33	-0.03	-0.81	-2.39 *
K (AA)	-1.80	34.29 **	-1.60	-2.52 *
Mg (AA)	-4.37 **	-4.51 **	-4.46 **	-2.84 *
Na (AA)	-1.12	-1.67	-1.16	-0.77
P - Olsen (as P) (PHOS)	1.90	1.14	1.15	0.58
pH - H2O (2/5) (UK)	-21.76 **	10.83 **	8.59 **	-6.76 **
INSTN (1037)				
Cd (RT)	5.53 **	5.53 **	29.49 **	15.60 **
Cr (RT)	1.11	-4.23 **	-1.46	-2.52 *
Cu (RT)	0.54	-0.15	0.87	0.73
Fe (RT)	-2.00	-2.11 *	-2.72 *	-1.89
Mn (RT)	-1.57	-1.78	-1.96	-2.19 *
Ni (RT)	1.39	1.93	3.12 **	2.58 *
Pb (RT)	9.27 **	-1.26	10.59 **	0.20
Sr (RT)	6.63 **	-4.51 **	2.88 *	4.14 **
Zn (RT)	0.71	-0.12	0.90	0.23

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Sample	997	863	865	962
WIKASO (1040)				
N (AE)	0.33	0.58	-0.02	0.52
B (CC)	#	#	#	#
K (CC)	-0.44	-0.27	0.14	0.01
Mg (CC)	0.13	-0.04	0.18	0.01
N - NO3 (as N) (CC)	-0.46	-0.63	-0.68	-5.48 **
Na (CC)	#	#	#	#
EC-SC (ISO 11265) (SC)	0.38	0.49	0.65	0.61
Fraction < 2 µm (SC)	2.23 *	-3.81 **	-1.56	-3.81 **
Fraction < 63 µm (SC)	-0.25	-1.69	-1.57	-0.47
Fraction > 63 µm (SC)	0.28	2.92 *	1.64	0.58
Org.matter (L.O.I.) (SC)	-1.97	-2.76 *	-1.18	-2.13 *
pH - CaCl2 (SC)	-0.08	1.04	0.48	0.63
pH - H2O (SC)	0.25	0.59	-0.05	0.55
pH - KCl (SC)	0.30	2.61 *	1.81	0.39
Moisture-content (OD)	-0.49	-1.14	-1.25	-0.46
CEC (AA)	-0.54	-0.40	-0.64	-0.50
Ca (M3)	-0.33	0.27	1.47	-0.63
K (M3)	0.03	-0.28	-0.63	-0.81
Mg (M3)	1.27	1.33	3.17 **	2.60 *
Na (M3)	-2.36 *	-1.53	-0.88	-1.26
P (M3)	-1.46	-0.43	-0.66	-0.02
Cu (CAT)	0.98	0.73	1.63	0.97
Fe (CAT)	-0.87	0.97	2.50 *	0.06
Mn (CAT)	-0.82	0.08	0.89	0.50
Zn (CAT)	2.78 *	1.74	2.12 *	10.53 **
P - Bray (as P) (PHOS)	0.97	1.94	0.90	-1.10
P - Olsen (as P) (PHOS)	-0.43	0.01	0.97	-0.10
P - w (as P) (PHOS)	#	#	#	#
KARI-NARL (1046)				
Cu (AE)	3.15 **	-3.35 **	7.62 **	5.06 **
Mn (AE)	-1.52	-0.96	-0.69	-0.72
N (AE)	1.51	-1.80	0.24	0.61
Zn (AE)	30.13 **	-3.12 **	8.15 **	9.85 **
EC-SC (ISO 11265) (SC)	0.04	1.76	1.56	4.25 **
pH - H2O (SC)	-0.10	-0.23	1.48	-3.09 **
TOC=Total Org. C (SC)	-0.27	-0.92	-2.15 *	0.06
Ca (AA)	1.92	1.31	-0.15	1.04
CEC (AA)	-1.41	-1.70	-1.26	-2.26 *
K (AA)	74.08 **	18.26 **	43.06 **	1.00
Mg (AA)	2.17 *	0.10	2.20 *	0.75
Na (AA)	16.76 **	9.05 **	23.49 **	16.94 **
P - Olsen (as P) (PHOS)	-2.80 *	-2.77 *	-1.38	-3.94 **
LUNLAB (1052)				
Cr (AR)	1.77	-0.79	0.59	-0.69
Cu (AR)	4.87 **	0.90	4.31 **	0.40
Ni (AR)	0.02	0.37	-0.73	0.69
Pb (AR)	-1.44	-1.20	0.39	0.41
Zn (AR)	2.65 *	1.66	0.77	0.30
pH - H2O (SC)	1.26	0.95	2.45 *	-0.41
CEC (AA)	1.71	0.82	0.94	0.93
PA2010LAB (1058)				
Al (RT)	-0.33	0.01	0.04	0.67
As (RT)	1.82	-0.72	-0.34	-0.37
Ba (RT)	-0.32	0.71	-0.38	0.18
Br (RT)	1.49	0.49	0.85	0.18
Ca (RT)	-0.32	-0.06	0.52	0.13
Cd (RT)	<	-1.68	<	<
Ce (RT)	0.79	-0.41	-0.13	-0.67
Co (RT)	<	2.20 *	0.78	5.13 **
Cr (RT)	2.75 *	0.71	0.53	0.76
Cs (RT)	13.04 **	0.30	-0.59	-0.80
Cu (RT)	-0.37	0.80	0.18	0.61
Fe (RT)	0.86	0.37	-0.28	0.21

(cont)

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Sample	997	863	865	962
PA2010LAB (1058) (cont.)				
Ga (RT)	0.57	0.10	0.22	0.04
I (RT)	< #	< #	< #	#
K (RT)	0.02	0.70	0.15	0.42
La (RT)	0.47	0.32	0.09	0.39
Mg (RT)	13.14 **	-0.19	-0.58	0.26
Mn (RT)	1.86	0.89	0.53	0.87
Na (RT)	-0.55	1.61	-0.06	-0.36
Nb (RT)	-0.82	0.50	-0.13	0.37
Nd (RT)	4.78 **	0.13	2.84 *	-0.30
Ni (RT)	0.87	0.35	0.49	-0.08
P (RT)	-2.17 *	0.15	0.62	-3.17 **
Pb (RT)	0.28	1.66	0.28	0.60
Rb (RT)	-0.21	0.26	-0.50	0.49
S (RT)	11.81 **	-1.22	-0.81	-1.53
Sb (RT)	2.60 *	-2.23 *	0.53	-1.31
Si (RT)	0.82	1.04	1.57	1.89
Sn (RT)	-0.45	0.42	0.11	0.08
Sr (RT)	0.10	0.70	0.24	0.43
Th (RT)	-0.43	0.98	1.02	0.10
Ti (RT)	1.63	0.64	0.77	1.03
V (RT)	1.77	0.65	0.78	0.90
Y (RT)	-0.90	-0.68	-0.07	-0.48
Zn (RT)	0.10	0.55	-0.13	-0.34
Zr (RT)	-0.27	0.20	-0.06	-0.22
Al (AE)	2.47 *	2.64 *	3.83 **	2.80 *
As (AE)	2.86 *	1.17	1.43	1.21
Be (AE)	< #	#	#	8.38 **
Cd (AE)	1.16	-4.57 **	< #	<
Co (AE)	3.02 **	0.82	0.74	0.96
Cr (AE)	2.29 *	3.05 **	3.23 **	3.06 **
Cu (AE)	1.45	-0.69	-1.69	-1.11
Fe (AE)	5.11 **	2.56 *	1.14	1.87
Hg (AE)	-0.69	0.34	-0.93	0.10
Mn (AE)	4.30 **	2.11 *	1.88	3.30 **
Ni (AE)	0.66	0.53	0.72	0.42
P (AE)	2.21 *	1.89	1.10	1.22
Pb (AE)	2.04 *	-0.59	0.03	-0.56
Sb (AE)	#	#	#	#
Se (AE)	#	#	#	#
Sn (AE)	#	#	#	#
V (AE)	0.80	6.08 **	4.82 **	10.04 **
Zn (AE)	6.09 **	0.78	1.41	4.67 **
Moisture-content (OD)	0.20	0.15	0.05	0.45
BIOLAB (1061)				
C - org others (W&B a.o.) (SC)	0.23	0.13	0.75	0.04
EC-SC (ISO 11265) (SC)	-1.07	-1.24	-1.32	-1.99
pH - CaCl2 (SC)	2.99 *	3.58 **	2.35 *	0.70
pH - H2O (SC)	0.00	-1.30	-1.47	-1.48
pH - KCl (SC)	2.11 *	4.42 **	1.31	0.62
Ca (AA)	-0.55	2.85 *	0.33	0.20
K (AA)	-0.15	0.05	-0.02	-0.17
Mg (AA)	0.16	-0.78	0.77	-0.20
Na (AA)	6.32 **	3.21 **	8.04 **	3.22 **
Fe (CAT)	0.51	-0.37	0.36	0.23
Zn (CAT)	0.16	0.12	-0.43	-0.44
N - NO3 (as N) (KCL)	#	#	#	#
P - Olsen (as P) (PHOS)	0.58	0.65	0.19	0.15
INNOAGRAL (1062)				
EC-SC (ISO 11265) (SC)	0.30	0.20	-0.05	0.72
pH - H2O (SC)	-1.01	-1.77	-1.07	-0.12
Ca (AA)	-6.23 **	-3.66 **	-3.62 **	-0.86
K (AA)	-	-0.59	-0.57	-1.47
Mg (AA)	-5.99 **	-3.03 **	-3.45 **	-2.71 *
Na (AA)	-	-3.35 **	-	-

(cont)

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Sample	997	863	865	962
INNOAGRAL (1062) (cont.)				
P - Olsen (as P) (PHOS)	0.42	-0.09	1.38	0.97
pH - H2O (2/5) (UK)	-0.13	-0.97	-0.84	-0.18
KUDAROOT (1063)				
Ag (AR)	#	#	#	#
Al (AR)	1.60	-1.87	0.61	2.01 *
As (AR)	-0.94	-1.43	-0.99	-0.59
B (AR)	#	0.48	#	0.16
Ba (AR)	0.92	-1.06	1.25	1.82
Be (AR)	-0.22	-1.33	0.99	-0.36
Ca (AR)	0.71	0.88	0.87	-2.36 *
Cd (AR)	-0.52	-3.52 **	-0.80	-1.96
Co (AR)	-0.32	-3.01 **	-0.03	-0.86
Cr (AR)	-0.42	0.46	1.95	0.68
Cu (AR)	0.09	-1.69	-0.58	-0.88
Fe (AR)	0.47	-0.44	1.08	2.51 *
Hg (AR)	0.70	-1.75	-0.56	-1.08
K (AR)	2.64 *	-0.85	7.69 **	4.32 **
Mg (AR)	0.54	2.74 *	1.83	-0.11
Mn (AR)	-0.17	-3.34 **	-1.68	-1.51
Mo (AR)	-0.41	-1.45	-0.53	-0.54
Na (AR)	0.64	-5.05 **	2.75 *	1.21
Ni (AR)	-1.27	-2.35 *	-2.06 *	-2.41 *
P (AR)	-4.35 **	-8.17 **	-4.74 **	-4.16 **
Pb (AR)	-1.31	-1.88	-1.60	-1.87
S (AR)	0.86	0.51	1.62	-1.28
Sb (AR)	0.51	-1.07	0.21	-0.46
Se (AR)	10.42 **	1.04	19.64 **	10.76 **
Sn (AR)	1.19	0.35	1.71	2.84 *
Sr (AR)	6.92 **	2.09 *	8.58 **	1.03
Tl (AR)	#	3.40 **	3.17 **	3.18 **
V (AR)	0.60	-1.07	0.95	0.97
Zn (AR)	0.83	-0.99	-0.65	-0.55
C - org others (W&B a.o.) (SC)	-0.62	-3.38 **	-3.30 **	15.36 **
EC-SC (ISO 11265) (SC)	-9.07 **	6.47 **	12.74 **	6.52 **
pH - H2O (SC)	-7.70 **	7.33 **	5.40 **	-2.30 *
NAPLAB1 (1068)				
Ag (RT)	< #	< #	< #	< #
Al (RT)	-0.55	0.64	-0.07	0.20
As (RT)	-0.80	-0.91	3.45 **	-0.90
Ba (RT)	-1.55	-0.98	-1.56	-0.48
Bi (RT)	< #	< #	#	< #
Br (RT)	-0.40	-0.47	-0.27	0.24
Ca (RT)	-0.92	0.10	-0.06	0.28
Cd (RT)	2.61 *	0.82	<	<
Ce (RT)	-1.23	-1.03	-1.50	-1.15
Co (RT)	-1.35	0.53	-0.64	-1.17
Cr (RT)	0.73	-1.02	-1.23	-0.39
Cs (RT)	9.09 **	-0.85	0.31	-0.42
Cu (RT)	-0.43	-0.06	-0.40	-1.07
Fe (RT)	-0.24	0.14	-0.50	0.10
Ga (RT)	-0.62	-1.35	-1.45	-3.02 **
Ge (RT)	< #	#	#	#
I (RT)	#	#	#	#
K (RT)	0.18	173.45 **	0.10	0.44
La (RT)	-1.56	-0.55	-1.69	-0.78
Mg (RT)	-2.38 < *	-0.24	-0.83	-0.29
Mn (RT)	-0.24	-0.04	-0.28	1.15
Mo (RT)	<	<	-0.53	<
Na (RT)	-0.08	0.02	0.17	0.28
Nb (RT)	-0.98	-0.50	-0.86	-0.50
Nd (RT)	-2.58 *	-0.11	-0.34	-0.56
Ni (RT)	-0.82	-0.73	-1.80	-0.44
P (RT)	-0.14	0.62	-0.17	0.30
Pb (RT)	0.09	-0.14	-0.45	-0.35

(cont)

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Sample	997	863	865	962
NAPLAB1 (1068) (cont.)				
Rb (RT)	-0.75	-1.03	-1.13	-0.81
Sb (RT)	-0.59	-1.52	<	1.19
Sc (RT)	1.38	-0.72	-1.07	0.32
Se (RT)	< #	-0.17	< #	< #
Si (RT)	0.28	0.00	-0.05	0.03
Sn (RT)	2.58 *	-0.07	0.43	-0.12
Sr (RT)	-0.60	-1.05	-0.32	-0.04
Th (RT)	-1.61	-0.61	-1.39	-0.78
Ti (RT)	-0.43	0.23	-0.15	0.05
Tl (RT)	#	< #	< #	< #
U (RT)	1.30	1.22	0.96	-1.01
V (RT)	-0.41	-1.16	-0.82	-0.24
W (RT)	<	0.06	-1.79	-0.42
Y (RT)	-0.98	-0.08	-0.63	-0.70
Zn (RT)	-1.17	-0.62	-0.65	-0.85
Zr (RT)	-0.71	-0.50	-0.85	-0.85
Moisture-content (OD)	-1.72	-2.52 *	-0.46	-0.69
LABSOV (1070)				
As (AR)	-0.63	0.00	-0.42	-0.21
Cd (AR)	0.50	0.17	0.14	0.04
Cr (AR)	-1.38	-1.84	-2.40 *	-1.83
Cu (AR)	-0.10	-0.08	-0.40	-0.20
Ni (AR)	-0.62	-1.13	-0.69	0.03
Pb (AR)	0.33	0.41	0.59	0.42
Zn (AR)	-0.88	-0.82	-0.78	-0.87
LEC-NKUA (1074)				
Al (RT)	0.76	-3.23 **	0.51	-2.40 *
Cd (RT)	-0.26	-0.02	0.78	0.02
Cr (RT)	-0.13	-1.33	-0.07	-0.65
Cu (RT)	-1.55	-0.90	-0.84	-1.65
Fe (RT)	-0.45	-1.50	-0.65	-0.79
Mn (RT)	0.00	-1.04	-0.77	-0.42
Ni (RT)	-0.63	-0.39	-0.07	-1.75
Pb (RT)	3.34 **	-0.16	-0.82	-2.19 *
V (RT)	-1.70	0.07	-2.02 *	-1.81
Zn (RT)	-0.10	0.13	0.01	0.29
TIC=Total Inorg C(CaCO3) (SC)	0.11	-0.04	#	-5.52 **
TOC=Total Org. C (SC)	-0.32	-0.77	1.89	-0.78
Moisture-content (OD)	-0.43	-0.43	-0.95	-1.54
NALARAC (1076)				
N - elementary (RT)	-4.76 **	-8.90 **	-11.80 **	-5.36 **
C - org others (W&B a.o.) (SC)	-1.31	-5.10 **	-4.82 **	-2.15 *
pH - H2O (SC)	-1.16	-0.88	-1.07	-2.12 *
Ca (AA)	1.39	0.02	-4.67 **	0.62
CEC (AA)	7.54 **	-0.66	0.36	-0.26
K (AA)	-2.35 *	-3.05 **	-2.55 *	-1.35
Mg (AA)	-0.89	0.73	-0.97	0.68
Na (AA)	1.75	0.09	-0.05	-0.03
Cu (CAT)	0.51	-1.46	-1.86	-0.36
Fe (CAT)	2.28 *	0.80	-0.51	0.58
Mn (CAT)	-0.01	-1.93	-1.13	-0.29
Zn (CAT)	-0.52	-2.32 *	-2.08 *	-0.29
P - Bray (as P) (PHOS)	-0.70	0.50	3.97 **	1.20
WASL-DG (1082)				
B (CC)	#	#	#	#
Cu (CC)	#	#	#	#
Fe (CC)	#	#	#	#
K (CC)	6.23 **	26.95 **	124.09 **	16.92 **
Mg (CC)	5.52 **	-0.24	2.65 *	1.73
Mn (CC)	#	#	#	#
N - NH4 (as N) (CC)	14.47 **	45.79 **	26.43 **	90.43 **
N - NO3 (as N) (CC)	1.89	2.72 *	0.53	2.79 *

(cont)

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Sample	997	863	865	962
WASL-DG (1082) (cont.)				
Na (CC)	#	#	#	#
P (CC)	#	#	#	#
SO4 (CC)	#	#	#	#
Zn (CC)	#	#	#	#
C - org others (W&B a.o.) (SC)	4.69 **	6.78 **	-1.29	22.67 **
EC-SC (ISO 11265) (SC)	0.22	-0.61	-0.54	-0.38
pH - H2O (SC)	-0.05	0.18	0.23	0.73
CDAgrogand (1085)				
Org.matter (L.O.I.) (SC)	0.60	-1.35	-0.72	-0.66
pH - H2O (SC)	-0.30	0.12	0.12	0.16
Ca (AC)	#	#	#	#
K (AC)	#	#	#	#
Mg (AC)	#	#	#	#
Na (AC)	#	#	#	#
P - Olsen (as P) (PHOS)	0.90	0.28	0.13	0.95
LABTECCOL (1087)				
C - org others (W&B a.o.) (SC)	-1.29	-2.04 *	-1.28	-0.56
pH - H2O (SC)	-1.91	-2.60 *	-1.64	-0.70
S (AF)	#	#	#	#
Ca (AA)	-3.10 **	-2.12 *	-1.63	-1.01
K (AA)	-0.70	-0.86	-0.02	0.30
Mg (AA)	-1.91	-1.67	-1.08	-0.97
Na (AA)	0.48	0.23	10.98 **	1.30
Al (AC)	-	-	#	-
Cu (CAT)	-1.05	-2.99 *	0.31	-2.70 *
Fe (CAT)	-0.63	-2.33 *	-5.05 **	-2.70 *
Mn (CAT)	0.76	0.12	-0.03	-1.35
Zn (CAT)	-1.07	-4.11 **	-0.85	-2.56 *
P - Bray (as P) (PHOS)	-0.67	0.08	0.72	1.12
B (HCLPN)	#	#	#	#
NPIAS (1089)				
Ag (RT)	< #	< #	< #	< #
As (RT)	0.49	1.32	0.93	1.03
Ba (RT)	1.09	0.31	1.12	0.70
Br (RT)	0.96	2.02 *	0.85	1.49
Ca (RT)	0.38	-2.48 *	-0.67	-1.41
Cd (RT)	<	<	<	<
Ce (RT)	0.18	0.74	0.75	0.64
Co (RT)	0.96	0.81	0.70	0.66
Cr (RT)	1.81	1.75	1.65	1.58
Cs (RT)	0.79	0.87	0.82	0.91
Cu (RT)	<	<	<	<
Fe (RT)	0.77	0.60	0.56	0.54
Ga (RT)	<	<	<	<
Hg (RT)	<	<	<	<
I (RT)	< #	< #	#	#
K (RT)	1.67	0.56	1.23	-0.03
La (RT)	-0.30	1.23	0.50	0.62
Mn (RT)	0.52	0.99	0.26	1.07
Mo (RT)	<	<	<	<
Na (RT)	0.76	0.51	0.61	0.37
Nd (RT)	-0.10	0.62	0.24	0.72
Pd (RT)	< #	< #	< #	< #
Pt (RT)	< #	< #	< #	< #
Rb (RT)	1.39	1.54	1.60	1.68
S (RT)	-2.40 < *	<	<	-2.93 < *
Sb (RT)	0.07	-0.37	-0.58	-0.77
Sc (RT)	0.32	0.98	1.55	0.66
Se (RT)	< #	<	< #	< #
Sn (RT)	<	<	<	<
Sr (RT)	-2.31 *	7.39 **	-1.76	-0.49
Th (RT)	0.33	0.74	0.91	0.88
Ti (RT)	3.70 **	0.70	1.01	0.71

(cont)

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Sample	997	863	865	962
NPIAS (1089) (cont.)				
U (RT)	0.28	0.60	0.10	0.50
V (RT)	0.92	1.88	1.06	1.32
W (RT)	0.45	1.68	0.34	0.18
Zn (RT)	0.55	1.07	0.69	0.76
Zr (RT)	<	<	<	<
ARIST (1090)				
As (RT)	-	-	-	-0.24
K (RT)	0.46	0.11	0.04	10.34 **
La (RT)	-	0.50	-2.16 *	0.03
Mn (RT)	-1.99	-1.10	-0.90	3.24 **
Na (RT)	-1.46	0.49	-0.66	2.87 *
KFKI (1091)				
Al (RT)	5.13 **	5.62 **	5.23 **	6.22 **
As (RT)	0.51	0.75	0.36	0.89
Ba (RT)	2.72 *	3.52 **	1.89	0.98
Br (RT)	-1.53	-5.39 **	-2.40 *	-3.69 **
Ca (RT)	3.69 **	2.30 *	2.13 *	3.53 **
Ce (RT)	0.72	0.23	0.32	0.54
Co (RT)	1.22	-0.09	-0.17	0.15
Cr (RT)	0.95	0.52	0.87	1.38
Cs (RT)	0.79	0.62	1.05	1.24
Fe (RT)	1.74	-0.44	0.12	0.78
K (RT)	2.61 *	2.05 *	1.39	1.35
La (RT)	0.42	0.23	-0.08	0.17
Mg (RT)	18.42 **	23.09 **	16.38 **	13.63 **
Mn (RT)	6.60 **	2.58 *	3.51 **	6.15 **
Mo (RT)	3.83 **	3.96 **	2.81 *	3.93 **
Na (RT)	2.37 *	0.64	2.07 *	0.90
Rb (RT)	2.12 *	1.08	1.19	1.53
Sb (RT)	0.46	0.24	0.31	-0.28
Sc (RT)	0.92	0.44	0.78	0.43
Sr (RT)	-	-	-	9.99 **
Th (RT)	1.18	0.27	-0.24	0.59
Ti (RT)	9.57 **	3.77 **	5.62 **	5.77 **
U (RT)	0.12	-0.13	-0.14	0.25
V (RT)	2.87 *	5.92 **	2.68 *	3.88 **
W (RT)	0.59	0.27	0.28	1.12
Zn (RT)	1.11	2.01 *	1.12	0.92
REAK (1092)				
As (RT)	0.68	1.08	0.66	0.96
Ba (RT)	3.83 **	2.90 *	3.10 **	1.72
Br (RT)	0.18	0.85	-0.13	-0.10
Ca (RT)	-	-	-	3.03 **
Ce (RT)	2.67 *	0.48	0.80	0.56
Co (RT)	-0.14	0.25	0.78	-0.05
Cr (RT)	0.49	-0.72	-0.09	-0.62
Cs (RT)	-0.79	-0.15	0.09	-0.04
Fe (RT)	1.80	2.34 *	2.10 *	2.44 *
K (RT)	0.18	-2.65 *	-2.17 *	-3.94 **
La (RT)	2.72 *	0.18	0.04	-0.29
Mn (RT)	0.80	-1.99	1.44	13.05 **
Na (RT)	0.85	0.41	0.21	-0.08
Rb (RT)	2.12 *	0.84	0.83	0.17
Sb (RT)	0.59	1.14	0.46	1.19
Sc (RT)	0.46	0.60	0.55	0.21
Th (RT)	1.18	0.10	-0.45	0.20
Ti (RT)	-3.16 **	-10.79 **	-2.11 *	-1.42
U (RT)	0.94	0.51	0.75	0.23
V (RT)	1.52	-10.63 **	0.39	-0.83
Zn (RT)	0.55	1.90	1.04	1.08

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Sample	997	863	865	962	
SACAV (1095)					
Ag (RT)	#	#	#	< #	
As (RT)	-1.04	0.09	0.06	0.49	
Ba (RT)	-2.09 *	-0.55	3.10 **	-1.81	
Br (RT)	-0.56	-0.28	0.01	0.24	
Ce (RT)	-0.78	-0.89	-1.01	-1.13	
Co (RT)	-1.19	-1.21	-1.39	-0.76	
Cr (RT)	0.02	-0.84	0.00	0.16	
Cs (RT)	-1.77	-1.43	-2.15 *	-1.57	
Fe (RT)	-1.49	-2.17 *	-2.30 *	-1.44	
Ga (RT)	-0.74	1.47	-0.86	6.86 **	
K (RT)	-0.66	-0.33	-0.19	-0.17	
La (RT)	-0.84	-1.23	-1.06	-1.05	
Na (RT)	-0.69	-0.34	-0.32	0.32	
Nd (RT)	-1.56	-0.23	-1.02	0.25	
Rb (RT)	0.02	-1.25	-2.37 *	-0.44	
Sb (RT)	-1.18	0.49	-0.58	-0.16	
Sc (RT)	-1.28	-0.72	-2.52 *	-0.81	
Th (RT)	-2.20 *	-0.90	-1.12	-0.78	
U (RT)	0.41	1.40	1.40	1.96	
W (RT)	-1.39	-0.56	-0.15	-0.10	
Zn (RT)	-1.14	-1.10	-1.14	0.14	
CAMPU (1096)					
As (RT)	-1.77	-1.81	-1.11	-0.75	
Br (RT)	-0.85	29.00 **	30.54 **	8.81 **	
Ce (RT)	-	-2.00	-	-	
Co (RT)	-	-	-	0.18	
Cr (RT)	-4.98 **	-8.27 **	-5.11 **	-8.00 **	
Cs (RT)	-	-1.02	-	-1.70	
Fe (RT)	-	-5.72 **	-5.46 **	-7.38 **	
Ga (RT)	0.83	-3.85 **	-0.73	0.18	
K (RT)	-3.15 **	-8.61 **	-1.75	-4.46 **	
La (RT)	-0.73	-3.75 **	-2.51 *	-2.86 *	
Mn (RT)	-3.89 **	-2.15 *	-10.55 **	-	
Na (RT)	-2.29 *	-1.97	-2.14 *	-1.47	
Rb (RT)	-9.95 **	-12.25 **	-	-14.62 **	
Sb (RT)	-1.06	-1.27	-1.86	-0.70	
Sc (RT)	-2.25 *	-2.08 *	-3.96 **	-2.61 *	
Th (RT)	-	-1.49	-1.23	-1.15	
U (RT)	-1.70	-1.55	-0.84	-1.03	
W (RT)	-	-1.11	-1.22	-1.01	
Zn (RT)	-	-12.48 **	16.47 **	-	
ATCHI (1098)					
As (RT)	0.03	-11.59 **	-3.72 **	-8.92 **	
Ba (RT)	-	-1.10	-	-	
Br (RT)	-0.68	-0.07	-1.88	-1.13	
Ce (RT)	-0.28	-6.87 **	-0.62	-1.90	
Co (RT)	-0.30	-11.13 **	-2.59 *	-3.14 **	
Cr (RT)	0.25	0.52	0.24	-0.69	
Cs (RT)	-1.67	-1.50	-1.80	0.53	
Fe (RT)	-2.42 *	-20.95 **	-20.84 **	-24.76 **	
Hg (RT)	-	37.50 **	0.68	-11.63 **	
K (RT)	-15.88 **	-18.41 **	-14.39 **	-28.32 **	
La (RT)	-1.30	-2.19 *	-1.64	-2.28 *	
Na (RT)	0.01	-0.74	-6.95 **	-6.00 **	
Rb (RT)	0.44	-0.55	-1.32	-1.34	
Sb (RT)	-1.83	-1.66	-1.40	-2.17 *	
Sc (RT)	-1.98	-0.73	-2.97 *	1.00	
Th (RT)	-0.55	-0.78	-0.67	-0.75	
Zn (RT)	-1.79	-1.57	-1.49	1.08	
TEFA (1099)					
Ag (RT)	< #	< #	< #	< #	
As (RT)	-0.06	1.13	0.67	0.96	
Ba (RT)	-0.61	0.07	-0.09	0.00	(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
TEFA (1099) (cont.)				
Br (RT)	0.07	1.58	0.47	0.69
Ca (RT)	-0.89	-0.05	0.34	0.31
Cd (RT)	<	<	<	<
Ce (RT)	0.56	0.16	0.02	0.08
Co (RT)	0.01	0.39	0.35	0.56
Cr (RT)	-0.24	1.01	0.69	1.41
Cs (RT)	0.00	0.62	0.38	0.80
Fe (RT)	-0.12	0.73	0.78	1.02
Ga (RT)	0.03	2.16 *	1.31	4.35 **
Hg (RT)	<	<	<	<
K (RT)	0.50	0.91	0.22	0.77
La (RT)	0.59	0.18	-0.14	-0.19
Mo (RT)	-0.49	<	-0.52	<
Na (RT)	0.25	0.64	0.90	0.67
Nd (RT)	0.65	0.66	-0.21	0.20
Rb (RT)	0.47	1.54	1.46	1.68
Sb (RT)	-0.41	0.39	-0.03	0.17
Sc (RT)	-0.21	0.77	0.69	0.54
Se (RT)	< #	-0.01	< #	< #
Sr (RT)	0.35	-0.28	1.22	1.22
Th (RT)	0.83	0.63	0.61	0.88
U (RT)	0.28	0.77	0.55	0.72
W (RT)	-0.22	0.45	0.67	-0.04
Zn (RT)	-0.18	1.31	0.85	0.76
Zr (RT)	1.20	0.95	1.43	0.79
SYRAT (1100)				
Ag (RT)	#	< #	#	#
Al (RT)	0.60	-0.02	1.24	-0.79
As (RT)	-0.09	0.23	-1.39	-1.39
Ba (RT)	-0.69	0.34	-0.18	0.00
Br (RT)	-0.71	-0.55	-0.83	-1.10
Ca (RT)	0.14	-0.56	2.24 *	1.25
Cd (RT)	20.89 **	<	<	<
Ce (RT)	-0.24	-0.24	-0.52	-0.26
Co (RT)	-0.14	0.67	-0.05	0.66
Cr (RT)	-0.36	0.52	0.13	0.41
Cs (RT)	-0.88	-0.15	-0.63	-1.11
Cu (RT)	<	<	<	<
Fe (RT)	-0.27	0.43	-0.10	0.30
Hg (RT)	88.75 **	<	166.71 **	240.49 **
I (RT)	< #	< #	< #	< #
K (RT)	-0.50	-0.95	-1.34	-0.40
La (RT)	0.08	-0.55	-1.55	-1.19
Mg (RT)	-2.38 < *	6.80 **	4.21 **	-0.27
Mn (RT)	-0.24	0.71	0.67	-0.32
Mo (RT)	0.49	0.89	0.74	0.59
Na (RT)	-0.09	0.18	-0.05	-0.64
Nb (RT)	0.58	-2.82 *	-2.67 *	-3.48 **
Nd (RT)	-0.64	-1.11	-0.52	-0.18
Ni (RT)	-0.13	0.92	-1.04	0.84
Rb (RT)	0.13	0.15	-0.17	4.71 **
Sb (RT)	-0.06	-0.22	-0.51	-0.50
Sc (RT)	-0.07	0.16	-0.49	0.32
Sr (RT)	0.33	0.60	0.34	0.37
Th (RT)	-0.05	-0.72	-0.82	-0.05
Ti (RT)	-0.22	-0.33	0.66	0.95
U (RT)	-1.04	-1.58	-0.66	-1.30
V (RT)	-0.05	0.48	0.46	0.29
W (RT)	-1.03	-0.56	-0.48	1.62
Zn (RT)	0.55	1.60	-0.07	1.24
Zr (RT)	0.33	1.57	1.70	0.50

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
TECNUC (1103)				
As (RT)	-2.09 *	-2.43 *	-0.98	-1.84
Ba (RT)	1.02	2.28 *	7.50 **	2.08 *
Co (RT)	-0.46	0.36	-0.44	-0.02
Cr (RT)	-1.37	0.38	-0.29	0.25
Cs (RT)	-8.68 **	0.75	0.24	0.23
Fe (RT)	-1.09	0.26	-0.67	-1.07
La (RT)	-0.26	1.22	0.45	0.12
Na (RT)	-0.34	0.43	0.63	0.26
Rb (RT)	-1.59	-0.67	0.11	-0.44
Sb (RT)	-0.72	0.11	0.27	-0.14
Sc (RT)	-0.49	0.68	-0.35	-0.30
Th (RT)	-0.05	-0.51	0.45	-0.39
U (RT)	-0.56	-0.92	-0.14	-0.73
Zn (RT)	-2.24 *	0.78	-2.02 *	-0.16
IPCN (1104)				
Ce (RT)	-0.48	1.00	0.60	0.83
Co (RT)	1.11	0.87	0.15	0.50
Cr (RT)	0.11	1.99	1.45	1.04
Cs (RT)	0.40	0.84	0.51	0.31
Fe (RT)	0.06	1.17	0.53	0.13
K (RT)	-4.84 **	-3.55 **	-1.52	-7.43 **
La (RT)	-0.68	1.82	1.20	0.86
Na (RT)	-0.85	-0.67	-0.37	-0.78
Nd (RT)	-	-0.88	-2.39 *	-5.39 **
Sb (RT)	0.83	0.89	1.44	1.05
Sc (RT)	0.36	1.08	0.69	0.15
Th (RT)	0.01	1.05	0.61	0.82
U (RT)	-1.53	2.95 *	2.76 *	-0.31
Zn (RT)	-0.48	0.37	-0.59	-0.24
INDIES (1106)				
Ag (RT)	< #	< #	< #	< #
Al (RT)	2.48 *	-0.85	1.07	-0.09
As (RT)	1.20	0.02	0.48	0.51
Br (RT)	-0.06	0.12	0.14	-0.38
Ca (RT)	-0.27	0.42	-0.02	-0.61
Cd (RT)	<	<	<	<
Ce (RT)	0.85	-0.89	-0.74	-0.76
Co (RT)	4.00 **	-0.49	0.15	0.27
Cr (RT)	2.26 *	0.35	0.45	1.10
Cs (RT)	0.70	-0.63	-1.10	-0.95
Cu (RT)	-	-0.98	-	-
Fe (RT)	2.48 *	-0.35	-0.28	0.77
Ga (RT)	0.48	-0.60	-0.81	-0.90
K (RT)	2.38 *	-0.07	-0.01	0.76
La (RT)	1.23	0.71	0.57	0.92
Mg (RT)	14.88 **	5.33 **	13.13 **	-1.32
Mn (RT)	0.38	0.57	-0.40	0.42
Na (RT)	0.98	-0.43	-0.30	0.11
P (RT)	32.25 **	-	58.62 **	-6.45 **
Pb (RT)	-0.11	0.57	-0.55	0.71
Rb (RT)	-2.03 *	-2.39 *	-2.83 *	-1.94
S (RT)	6.19 **	-5.31 **	5.53 **	-4.57 **
Sb (RT)	2.36 *	1.24	2.48 *	2.33 *
Sc (RT)	0.96	-0.04	-0.49	0.08
Si (RT)	-0.90	7.66 **	14.56 **	3.17 **
Sr (RT)	-0.06	0.79	0.83	1.12
Th (RT)	1.59	-0.01	0.35	0.44
Ti (RT)	1.83	-1.09	0.53	-0.19
U (RT)	1.30	-0.99	-1.03	-0.26
V (RT)	0.06	-0.48	0.08	-0.28
Zn (RT)	1.15	-0.34	-0.07	0.02

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
DESAR (1108)				
Al (RT)	-0.03	-1.33	-0.86	-2.72 *
As (RT)	0.15	0.56	0.46	0.69
Ba (RT)	0.05	0.12	0.51	0.72
Br (RT)	0.35	1.26	0.57	0.81
Cd (RT)	-1.20	-0.97	-1.01	-0.10
Ce (RT)	-0.12	-0.14	-0.11	-0.03
Co (RT)	0.22	-0.16	-0.24	-0.25
Cr (RT)	-0.21	0.27	0.78	0.76
Cs (RT)	0.20	0.30	0.09	0.35
Cu (RT)	-0.19	-0.88	0.45	0.26
Fe (RT)	-0.33	-0.74	-0.54	-0.09
I (RT)	-	-	-	#
K (RT)	-0.82	-1.49	-1.11	-2.20 *
La (RT)	-0.26	-0.26	-0.54	-0.42
Mg (RT)	-	-0.26	0.12	-1.37
Mn (RT)	-0.48	-0.65	-0.80	-1.33
Na (RT)	-0.14	-0.56	-0.27	-0.31
Nd (RT)	0.62	0.20	0.46	0.55
Rb (RT)	0.40	0.50	0.50	0.79
Sb (RT)	0.00	673.68 **	486.89 **	791.91 **
Sc (RT)	0.32	0.60	0.73	0.54
Sr (RT)	-	-	-	1.82
Th (RT)	0.45	0.27	0.21	0.29
Ti (RT)	0.52	-0.23	-0.68	-1.43
U (RT)	0.11	0.18	0.10	0.23
V (RT)	-0.22	-0.07	-0.39	-0.93
W (RT)	-0.66	-0.87	357.17 **	-0.73
YAZA (1109)				
Ba (RT)	0.65	-1.41	-	-
Br (RT)	1.30	-	-	-
Ce (RT)	-	2.81 *	2.51 *	-
Co (RT)	-	1.11	2.55 *	-
Cr (RT)	-	-8.18 **	14.52 **	-
Fe (RT)	9.07 **	2.94 *	5.80 **	-
La (RT)	0.03	-12.76 **	0.39	0.33
Mn (RT)	8.07 **	28.18 **	-	-
Rb (RT)	-	2.94 *	0.97	-
Sc (RT)	0.36	0.53	-0.03	-
NOUSSE (1110)				
Al (RT)	0.92	2.68 *	-1.62	-1.89
As (RT)	0.39	0.28	0.08	0.43
Ba (RT)	0.50	0.41	0.77	0.86
Br (RT)	-0.66	-1.90	-0.84	-1.30
Ca (RT)	2.33 *	25.71 **	15.72 **	3.14 **
Ce (RT)	-1.31	-0.20	-0.32	-0.79
Co (RT)	0.28	1.36	0.80	0.86
Cr (RT)	-0.31	0.27	0.00	0.30
Cs (RT)	0.30	0.43	0.42	0.14
Fe (RT)	-0.10	0.52	0.01	-0.01
Ga (RT)	-0.76	-0.18	-0.46	1.65
K (RT)	0.19	-0.39	-0.10	-0.67
La (RT)	-0.69	0.12	0.09	0.03
Mg (RT)	1.69	0.35	-0.08	-0.84
Mn (RT)	-0.19	1.69	-0.60	0.12
Mo (RT)	-0.51	0.24	0.05	0.10
Na (RT)	0.32	0.23	0.54	0.68
Nd (RT)	-0.58	0.25	-0.34	-0.83
Rb (RT)	0.24	0.61	-0.17	0.17
Sb (RT)	0.12	-0.72	-0.65	-0.97
Sc (RT)	-0.07	0.66	0.46	0.21
Se (RT)	#	-0.85	#	#
Sr (RT)	-7.57 **	-12.79 **	-8.43 **	-7.01 **
Th (RT)	-0.49	0.21	0.09	-0.03
Ti (RT)	-2.93 *	-	0.46	2.83 *

(cont)

ISE 2012.1 Z - Scores - Per Participant

Sample	997	863	865	962
NOUSSE (1110) (cont.)				
U (RT)	-0.47	-0.54	-0.19	-0.34
V (RT)	0.54	0.07	0.70	1.60
W (RT)	-0.44	0.15	-0.53	-0.38
Zn (RT)	0.10	0.25	-0.15	-0.10
Zr (RT)	-1.72	-0.41	-3.40 **	-2.04 *
LNIP (1111)				
As (RT)	-0.97	-0.34	-0.22	-0.24
Ba (RT)	-2.09 *	0.07	-0.18	-3.97 **
Br (RT)	-0.43	-0.53	-0.26	-0.33
Ca (RT)	0.28	54.68 **	26.11 **	-6.91 **
Ce (RT)	-2.42 *	-2.28 *	-2.21 *	-2.93 *
Co (RT)	-0.77	-0.96	-0.60	-0.20
Cr (RT)	-0.88	-1.09	-0.25	-0.04
Cs (RT)	-1.32	-0.65	-1.17	-0.59
Fe (RT)	-2.19 *	-3.34 **	-1.86	-2.78 *
I (RT)	-	-	#	#
K (RT)	-1.96	-0.60	0.89	-1.48
La (RT)	-1.00	-0.50	-0.19	-0.33
Mg (RT)	-	-	-	0.26
Mn (RT)	-1.64	-0.61	-0.24	-0.40
Na (RT)	-1.21	-0.48	-0.14	-0.21
Nd (RT)	-0.38	-0.99	0.15	0.63
Ni (RT)	-	0.18	-	0.80
Rb (RT)	-1.56	-0.32	-0.14	-0.74
Sb (RT)	-0.47	-0.16	0.10	-0.43
Sc (RT)	-1.17	-0.82	-1.34	-0.81
Se (RT)	#	-0.32	#	#
Sr (RT)	-2.14 *	-	-2.00 *	-2.27 *
Th (RT)	-0.96	-0.61	-0.17	-0.19
Ti (RT)	-0.33	-0.30	-0.20	-3.98 **
U (RT)	-0.46	0.37	0.49	0.77
V (RT)	-3.93 **	-8.87 **	-4.98 **	-8.57 **
W (RT)	-0.25	0.24	0.94	-0.13
Zn (RT)	-	-0.86	-	1.39
Zr (RT)	-1.77	4.57 **	-0.85	1.08
RTCZ (1114)				
pH - CaCl2 (SC)	1.11	1.24	1.51	1.54
pH - H2O (SC)	0.62	1.16	1.14	1.69
pH - KCl (SC)	0.98	1.23	1.16	1.28
TC=Total C (org.+inorg.) (SC)	1.14	2.67 *	1.36	3.13 **
TIC=Tot.Inorg C(CaCO3) (SC)	11.08 **	9.61 **	#	8.08 **
TOC=Total Org. C (SC)	-1.46	-1.36	-0.79	-1.66
Moisture-content (OD)	0.83	0.55	0.98	1.38
K (CAL)	#	#	#	#
P (CAL)	#	#	#	#
TRESE (1117)				
Cd (AR)	-11.83 < **	-8.81 **	-7.87 < **	-7.26 < **
Cr (AR)	0.39	0.15	2.88 *	-0.66
Cu (AR)	0.90	-1.60	-0.53	-0.17
Mn (AR)	-0.98	-7.73 **	-4.39 **	-4.54 **
Ni (AR)	-1.69	-1.93	-2.09 *	-0.86
Pb (AR)	-0.64	-1.19	-2.15 *	0.13
Zn (AR)	-0.41	-0.61	51.77 **	-0.32
Mg (CC)	1.02	28.61 **	1.06	0.82
pH - KCl (SC)	0.73	0.63	0.74	0.66
K (DL)	#	#	#	#
P (DL)	#	#	#	#

Errors and Corrections

ISE 2011 Period 4

Errors and Corrections ISE 2011 Period 4

Sample		868	900	952	989	Code
Real totals						
Ag (mg/kg)						
SYRAT	(1100)	0.110	0.280	0.41	2.29	D, N
		===== Statistical Results (no NDA) =====				
N		4	4	4	7	
Median		0.3550	0.3400	1.355	3.100	
MAD		0.2565	0.1555	1.112	0.810	
=====						
Al (g/kg)						
INSTN	(1037)	43.5 **	39.2 **	68.1 **	62.6	D, N
SYRAT	(1100)	19.0	46.0	91.7	59.6	D, N
		===== Statistical Results =====				
NDA mean		16.99	46.24	94.60	63.17	
NDA st dev		1.58	1.65	4.54	1.98	
N		33	33	33	33	
Median		17.00	46.00	93.50	62.60	
MAD		1.10	1.20	3.27	1.40	
=====						
As (mg/kg)						
ARIST	(1090)	-	-	-	61.0 **	D, N
ROSC	(1097)	6.92 *	12.4	4.19	39.0	D, N
SYRAT	(1100)	5.37	13.9 *	5.10	65.9 **	D, N
TECNUC	(1103)	4.16 *	10.1	4.31	44.2	D, N
		===== Statistical Results =====				
NDA mean		5.584	11.54	4.365	45.91	
NDA st dev		0.510	1.09	0.862	3.60	
N		26	28	24	31	
Median		5.600	11.40	4.300	45.40	
MAD		0.350	0.74	0.610	2.50	
=====						
Ba (mg/kg)						
ROSC	(1097)	288 **	292 *	744 *	979	D, N
SYRAT	(1100)	188	253	640	1036	D, N
TECNUC	(1103)	195	262	619	1100	D, N
		===== Statistical Results =====				
NDA mean		210.0	238.2	631.8	1043	
NDA st dev		21.5	22.5	39.4	56	
N		32	32	32	32	
Median		210.0	234.5	625.0	1050	
MAD		15.5	15.5	26.5	39	
=====						
Br (mg/kg)						
ROSC	(1097)	8.81	6.95	6.06	13.4 *	D, N
SYRAT	(1100)	5.71	5.58	5.03	14.1	D, N
		===== Statistical Results =====				
NDA mean		7.026	5.992	5.437	15.85	
NDA st dev		1.113	0.648	0.800	0.95	
N		20	19	20	21	
Median		7.050	6.020	5.650	16.00	
MAD		0.755	0.440	0.585	0.60	
=====						

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Sample		868	900	952	989	Code
Ca (g/kg)						
SYRAT	(1100)	1.35	11.5	7.83	39.7	D, N
===== Statistical Results =====						
NDA mean		1.519	12.19	7.500	38.58	
NDA st dev		0.222	1.01	0.646	1.22	
N		31	32	31	32	
Median		1.560	12.20	7.550	38.45	
MAD		0.150	0.70	0.450	0.83	
=====						
Cd (mg/kg)						
SYRAT	(1100)	-	-	-	7.20	D, N
===== Statistical Results =====						
NDA mean		0.2759	0.3338	0.1606	8.497	
NDA st dev		0.0892	0.1637	0.1143	0.850	
N		14	15	13	23	
Median		0.2955	0.3440	0.1500	8.525	
MAD		0.0645	0.1160	0.0830	0.575	
=====						
Ce (mg/kg)						
ROSC	(1097)	17.4	51.9	119	56.8	D, N
SYRAT	(1100)	14.3	56.0	131	68.2	D, N
===== Statistical Results =====						
NDA mean		15.24	51.76	130.0	68.53	
NDA st dev		2.85	5.46	12.8	8.63	
N		21	21	22	22	
Median		15.00	51.94	130.0	67.85	
MAD		2.10	3.89	9.0	6.30	
=====						
Co (mg/kg)						
INSTN	(1037)	-	3.4 **	5.1 **	9.5 **	D, N
ROSC	(1097)	1.64	9.2	24.2	15.8 *	D, N
SYRAT	(1100)	1.41	10.3	30.1	21.7	D, N
TECNUC	(1103)	1.43	9.9	29.4	21.8	D, N
YAZA	(1109)	4.87 **	14.4 **	13.6 **	25.3	D, N
===== Statistical Results =====						
NDA mean		1.491	10.03	28.84	21.76	
NDA st dev		0.229	0.96	2.34	2.04	
N		29	34	34	34	
Median		1.560	9.93	28.65	21.30	
MAD		0.170	0.68	1.61	1.35	
=====						
Cr (mg/kg)						
ROSC	(1097)	33.0	126	57 **	252	D, N
SYRAT	(1100)	20.3	114	114	262	D, N
TECNUC	(1103)	24.1	122	124	282	D, N
===== Statistical Results =====						
NDA mean		23.92	113.3	114.2	270.5	
NDA st dev		5.89	12.0	8.6	23.0	
N		31	37	37	37	
Median		24.10	111.3	114.0	266.0	
MAD		3.80	8.3	6.0	16.0	
=====						

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Sample		868	900	952	989	Code
Cs (mg/kg)						
ROSC	(1097)	1.54	4.31	7.13	9.2 *	D, N
SYRAT	(1100)	1.18	4.58	7.93	12.5	D, N
TECNUC	(1103)	1.25	4.53	7.66	12.2	D, N
YAZA	(1109)	1.85	5.46	5.89 *	2.1 **	D, N
===== Statistical Results =====						
NDA mean		1.344	4.513	7.393	12.43	
NDA st dev		0.253	0.595	0.688	1.35	
N		15	17	16	17	
Median		1.350	4.530	7.480	12.40	
MAD		0.170	0.400	0.465	0.90	
=====						
Cu (mg/kg)						
INSTN	(1037)	9.4 **	15.3 **	50.1	110 **	D, N
===== Statistical Results =====						
NDA mean		12.17	26.01	56.85	159.4	
NDA st dev		0.91	1.73	3.60	7.4	
N		23	24	24	24	
Median		12.00	26.03	56.95	157.5	
MAD		0.60	1.25	2.45	5.5	
=====						
Fe (g/kg)						
INSTN	(1037)	7.90 **	24.6	58.8	44.6 *	D, N
ROSC	(1097)	6.50	25.0	56.8	32.9 **	D, N
SYRAT	(1100)	5.33	24.6	61.6	40.1	D, N
TECNUC	(1103)	5.13	23.0	58.7	39.3	D, N
===== Statistical Results =====						
NDA mean		5.800	24.09	59.97	40.26	
NDA st dev		0.439	0.64	3.49	1.73	
N		41	41	41	41	
Median		5.900	24.20	60.50	40.10	
MAD		0.300	0.40	2.50	1.20	
=====						
K (mg/kg)						
ARIST	(1090)	7664	16240 *	18230	20320	D, N
SYRAT	(1100)	6391 **	11980 **	19340	19480	D, N
TECNUC	(1103)	8300	15600	18400	20300	D, N
===== Statistical Results =====						
NDA mean		8292	14794	19327	20516	
NDA st dev		419	615	1218	842	
N		36	36	36	36	
Median		8226	14795	19304	20442	
MAD		275	437	859	589	
=====						
La (mg/kg)						
ARIST	(1090)	-	-	47.8	44.8 *	D, N
ROSC	(1097)	9.18	26.8	57.8	28.8	D, N
SYRAT	(1100)	7.36	28.0	64.3	36.4	D, N
TECNUC	(1103)	8.09	28.4	71.4	39.7	D, N
YAZA	(1109)	10.53	26.0	31.8 **	32.4	D, N
===== Statistical Results =====						
NDA mean		7.850	25.98	61.30	34.94	
NDA st dev		1.884	1.85	7.27	3.61	
N		21	23	25	24	
Median		7.690	26.00	60.80	35.45	
MAD		1.290	1.30	5.00	2.50	
=====						

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Sample		868	900	952	989	Code
Mg (mg/kg)						
SYRAT	(1100)	2049 **	8890	14670 *	11340	D, N
		===== Statistical Results =====				
NDA mean		595.8	9820	12527	11535	
NDA st dev		126.7	563	758	612	
N		24	30	30	30	
Median		609.5	9809	12378	11418	
MAD		90.5	368	546	424	
		=====				
Mn (mg/kg)						
ARIST	(1090)	143 *	790 **	1364	1113	D, N
SYRAT	(1100)	194	1073	1531	1180	D, N
		===== Statistical Results =====				
NDA mean		190.8	1058	1478	1112	
NDA st dev		16.9	62	86	59	
N		37	36	37	37	
Median		194.0	1053	1478	1117	
MAD		11.0	42	57	41	
		=====				
Mo (mg/kg)						
SYRAT	(1100)	0.370	1.61	3.290 **	2.81 **	D, N
		===== Statistical Results =====				
NDA mean		0.3852	1.238	0.9474	1.800	
NDA st dev		0.1177	0.451	0.5678	0.262	
N		14	15	15	17	
Median		0.3950	1.290	1.0000	1.870	
MAD		0.0875	0.330	0.4000	0.170	
		=====				
Na (mg/kg)						
ARIST	(1090)	2886	5146 **	4462	4352	D, N
ROSC	(1097)	4055	6806	4150	3456 *	D, N
SYRAT	(1100)	3388	7167	4433	4158	D, N
TECNUC	(1103)	3283	7600	-	-	D, N
		===== Statistical Results =====				
NDA mean		3675	7082	4563	4482	
NDA st dev		439	485	313	372	
N		32	34	33	33	
Median		3635	7013	4561	4490	
MAD		306	352	204	265	
		=====				
Nb (mg/kg)						
SYRAT	(1100)	9.74 **	13.5 *	9.9 **	15.5	D, N
		===== Statistical Results =====				
NDA mean		3.414	10.22	20.37	14.36	
NDA st dev		0.717	1.28	1.93	1.35	
N		12	14	14	14	
Median		3.500	10.05	20.40	14.20	
MAD		0.500	0.85	1.35	0.95	
		=====				

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Sample		868	900	952	989	MIC
Nd (mg/kg)						
ROSC	(1097)	8.52	29.6	28.0 **	27.6	D, N
SYRAT	(1100)	5.35	22.3	59.9	32.3	D, N
		===== Statistical Results =====				
NDA mean		6.906	26.10	57.10	29.95	
NDA st dev		1.624	4.98	5.41	3.32	
N		15	17	17	17	
Median		7.310	25.60	55.60	29.80	
MAD		1.190	3.30	3.90	2.22	
		=====				
Ni (mg/kg)						
INSTN	(1037)	-	36.3 *	61.8	71.3 *	D, N
SYRAT	(1100)	4.33	42.6	60.5	61.0	D, N
		===== Statistical Results =====				
NDA mean		4.689	43.02	58.50	61.36	
NDA st dev		0.735	2.34	3.92	3.42	
N		21	28	27	28	
Median		4.850	43.00	58.87	61.86	
MAD		0.520	1.65	2.83	2.35	
		=====				
Rb (mg/kg)						
ROSC	(1097)	47.5 **	103.9 **	224	105	D, N
SYRAT	(1100)	32.6	91.4	212	116	D, N
TECNUC	(1103)	33.3	91.4	230	127 *	D, N
		===== Statistical Results =====				
NDA mean		34.58	89.14	202.0	113.0	
NDA st dev		2.36	3.09	16.3	6.8	
N		29	28	29	29	
Median		34.00	89.35	203.0	114.7	
MAD		1.50	2.05	12.0	4.7	
		=====				
Sb (mg/kg)						
ROSC	(1097)	1.330 **	1.60 **	0.870 *	4.08	D, N
SYRAT	(1100)	0.600	1.07	0.590	4.76	D, N
TECNUC	(1103)	0.710	1.22	0.624	5.23	D, N
		===== Statistical Results =====				
NDA mean		0.7817	1.170	0.5933	4.967	
NDA st dev		0.1573	0.139	0.1322	0.628	
N		21	22	20	26	
Median		0.7800	1.155	0.5750	4.825	
MAD		0.1100	0.090	0.0900	0.440	
		=====				
Sc (mg/kg)						
ROSC	(1097)	2.02	8.35	19.4	9.7 *	D, N
SYRAT	(1100)	1.53	8.11	21.1	11.6	D, N
TECNUC	(1103)	1.44	7.77	20.5	11.3	D, N
		===== Statistical Results =====				
NDA mean		1.648	8.001	19.50	11.49	
NDA st dev		0.282	0.340	1.97	0.62	
N		17	19	19	19	
Median		1.710	8.000	19.35	11.60	
MAD		0.210	0.240	1.35	0.40	
		=====				

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Sample		868	900	952	989	MIC
Sr (mg/kg)						
SYRAT	(1100)	37.5	70.3	105.0	195	D, N
		===== Statistical Results =====				
NDA mean		39.93	62.17	97.69	180.2	
NDA st dev		3.73	5.34	8.57	12.3	
N		26	26	26	26	
Median		39.60	62.00	96.25	180.0	
MAD		2.55	3.70	6.15	8.4	
=====						
Th (mg/kg)						
ROSC	(1097)	3.23 *	9.55	21.6	10.4	D, N
SYRAT	(1100)	2.30	8.09	18.2	9.8	D, N
TECNUC	(1103)	2.31	8.40	20.8	11.0	D, N
		===== Statistical Results =====				
NDA mean		2.330	8.197	18.93	10.53	
NDA st dev		0.428	0.770	2.47	0.86	
N		21	24	25	25	
Median		2.330	8.200	19.30	10.40	
MAD		0.310	0.555	1.60	0.61	
=====						
Ti (mg/kg)						
SYRAT	(1100)	1026	3104	6021	4486	D, N
		===== Statistical Results =====				
NDA mean		1006	3057	6094	4026	
NDA st dev		67	169	379	270	
N		30	29	31	31	
Median		1013	3091	6081	4017	
MAD		45	111	257	180	
=====						
U (mg/kg)						
ROSC	(1097)	1.21	3.33	5.58	3.20	D, N
SYRAT	(1100)	1.08	3.22	4.42	2.81	D, N
TECNUC	(1103)	0.85	2.79	5.07	2.72	D, N
		===== Statistical Results =====				
NDA mean		1.047	2.653	4.317	2.907	
NDA st dev		0.174	0.655	0.758	0.386	
N		20	21	21	21	
Median		1.080	2.700	4.400	2.860	
MAD		0.117	0.470	0.520	0.280	
=====						
V (mg/kg)						
SYRAT	(1100)	17.3	88.3	135	108	D, N
		===== Statistical Results =====				
NDA mean		15.71	81.23	132.2	100.2	
NDA st dev		2.52	7.32	13.6	8.3	
N		27	29	31	31	
Median		15.32	80.70	132.0	100.0	
MAD		1.68	5.10	10.0	5.8	
=====						

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Sample		868	900	952	989	MIC
Zn (mg/kg)						
ROSC	(1097)	32.4	106.7 **	147 **	1081	D, N
SYRAT	(1100)	38.6	85.2 *	135 *	1026	D, N
TECNUC	(1103)	37.0	78.6	122	1082	D, N
		===== Statistical Results =====				
NDA mean		38.96	71.97	110.8	1048	
NDA st dev		3.75	6.41	11.6	66	
N		37	37	37	37	
Median		39.00	73.40	110.0	1035	
MAD		2.60	4.19	8.0	46	
		=====				
Zr (mg/kg)						
SYRAT	(1100)	231	251	199 **	249	D, N
		===== Statistical Results =====				
NDA mean		241.5	223.6	146.9	242.0	
NDA st dev		41.9	17.5	6.6	18.6	
N		21	23	22	23	
Median		246.0	219.0	148.0	243.0	
MAD		29.0	11.0	5.0	13.0	
		=====				
Acid extractable (So-called totals)						
Ag (mg/kg)						
CGEA	(1030)	0.216	0.0640	-	-	D, N
		===== Statistical Results (no NDA) =====				
N		2	2	1	7	
Median		0.1430	0.06700	0.06000	2.624	
MAD		0.0730	0.00300	-	0.158	
		=====				
As (mg/kg)						
CGEA	(1030)	5.65	4.02 **	-	11.6 **	D, N
		===== Statistical Results =====				
NDA mean		4.963	9.623	4.792	42.01	
NDA st dev		0.382	0.722	1.992	2.74	
N		16	20	13	20	
Median		4.900	9.500	5.000	42.27	
MAD		0.251	0.500	1.400	1.96	
		=====				
Ba (mg/kg)						
CGEA	(1030)	72.2 **	73.7	98 **	562 **	D, N
		===== Statistical Results =====				
NDA mean		35.75	83.37	353.9	808.7	
NDA st dev		1.59	12.83	38.8	55.4	
N		15	15	15	15	
Median		36.00	83.94	352.0	800.0	
MAD		1.00	8.83	28.6	40.0	
		=====				
Co (mg/kg)						
CGEA	(1030)	8.43 **	10.43 **	10.7 **	19.4	D, N
		===== Statistical Results =====				
NDA mean		1.285	8.851	26.14	18.45	
NDA st dev		0.223	0.473	2.21	0.73	
N		15	24	23	23	
Median		1.310	8.868	26.30	18.40	
MAD		0.160	0.308	1.45	0.50	
		=====				

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Sample		868	900	952	989	Code
Cr (mg/kg)						
CGEA	(1030)	36.12 **	60.7	-	149	D, N
===== Statistical Results =====						
NDA mean		8.379	58.25	76.66	180.4	
NDA st dev		1.290	7.62	10.53	16.3	
N		22	29	27	28	
Median		8.600	58.20	76.88	180.0	
MAD		0.900	5.20	7.08	11.2	
=====						
Cu (mg/kg)						
CGEA	(1030)	-	6.7 **	3.9 **	87 **	D, N
===== Statistical Results =====						
NDA mean		11.31	23.00	49.68	153.3	
NDA st dev		1.15	1.48	4.08	11.3	
N		32	33	32	32	
Median		11.24	23.00	49.75	151.2	
MAD		0.76	1.00	2.81	8.3	
=====						
Fe (g/kg)						
CGEA	(1030)	14.72 **	20.4	-	32.2	D, N
===== Statistical Results =====						
NDA mean		5.088	21.54	56.02	36.32	
NDA st dev		0.400	1.83	7.01	2.19	
N		16	16	16	16	
Median		5.150	21.50	55.00	36.27	
MAD		0.266	1.18	4.76	1.45	
=====						
Ga (mg/kg)						
CGEA	(1030)	12.5	9.21	4.34	12.0	D, N
===== No Statistical Results =====						
Li (mg/kg)						
CGEA	(1030)	1031.00	13.0	-	26.4	D, N
===== Statistical Results (no NDA) =====						
N		5	5	4	5	
Median		3.160	19.60	22.31	34.30	
MAD		0.500	1.50	2.62	4.30	
=====						
Ni (mg/kg)						
CGEA	(1030)	9.79 **	25.3 **	-	33.6 **	D, N
===== Statistical Results =====						
NDA mean		3.688	39.09	49.41	53.59	
NDA st dev		0.900	2.29	4.11	2.88	
N		23	30	28	29	
Median		3.820	38.80	50.29	53.60	
MAD		0.628	1.60	2.61	2.00	
=====						
Pb (mg/kg)						
CGEA	(1030)	88.1 **	21.7	7.8 **	243	D, N
===== Statistical Results =====						
NDA mean		38.76	25.46	18.47	267.8	
NDA st dev		3.43	2.14	3.05	21.9	
N		30	30	29	29	
Median		39.15	25.75	18.90	270.0	
MAD		2.33	1.42	2.10	15.0	
=====						

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Sample		868	900	952	989	Code
Rb (mg/kg)						
CGEA	(1030)	10.15	18.8	21	28.7	D, N
		===== Statistical Results (no NDA) =====				
N		3	3	3	3	
Median		4.380	17.60	106.0	24.30	
MAD		0.080	1.19	3.0	4.43	
=====						
Sb (mg/kg)						
CGEA	(1030)	1.530	0.550	0.14	3.42	D, N
		===== Statistical Results =====				
NDA mean		-	-	-	3.571	
NDA st dev		-	-	-	0.850	
N		3	4	3	9	
Median		0.5000	0.9750	1.300	3.420	
MAD		0.0600	0.4550	1.040	0.490	
=====						
Sn (mg/kg)						
CGEA	(1030)	16.28	2.18	1.11	21.8	D, N
		===== Statistical Results =====				
NDA mean		-	-	-	22.62	
NDA st dev		-	-	-	1.68	
N		5	4	5	12	
Median		2.100	2.390	2.442	22.25	
MAD		0.100	0.260	0.442	1.15	
=====						
U (mg/kg)						
CGEA	(1030)	2.770	1.440	1.36	2.63	D, N
		===== Statistical Results (no NDA) =====				
N		3	3	3	3	
Median		0.4600	0.7800	2.600	1.010	
MAD		0.0600	0.0700	0.110	0.030	
=====						
Pot. CEC using 1M NH4Cl (BZE)						
Ca (cmol+/kg)						
CDAgrogand	(1085)	0.59	1.3	2.1	1.0	C, N
		===== Statistical Results (no NDA) =====				
N		7	4	6	4	
Median		1.670	17.29	22.83	23.99	
MAD		0.050	5.17	2.20	11.85	
=====						
Mg (cmol+/kg)						
CDAgrogand	(1085)	0.217	6.30	7.0	8.07	C, N
		===== Statistical Results (no NDA) =====				
N		7	4	6	4	
Median		0.2900	3.928	11.73	2.773	
MAD		0.0100	0.963	0.36	0.508	
=====						



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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