Supplementary 1. Sampling of bottom sediments with a Petersen dredge.

Supplementary 2. Test protocol for spectrometric analysis results (the example: determination of Cu concentration).

Cu (324.7nm)

File Comment:

Comment:
FlameCont

Instrument Information

Device Name: AA

Type	Model Name	ROM Version	S/N
AA	AA-7000F	1.01	A30665001722
ASC			
GFA			

Optics Parameters

Element:	Cu
Socket #:	4
Lamp Current Low(Peak)(mA):	8
Wavelength(nm):	324.7
Slit Width(nm):	0.7
Lamp Mode:	BGC-D2

Peak(nm) : 324.77

Measurement Parameters

Order:	1st
Zero Intercept:	Non-Pass
Conc. Unit:	mg/L
Repetition Sequence:	SM-SM-...
Pre-Spray Time (sec):	3
Integration Time (sec):	5
Response Time:	1

	Num Reps.	Max Reps.	RSD Limit	SD Limit
Blank	1	1	99.90	0.0000
Standard	3	3	99.90	0.0000
Sample	3	3	99.90	0.0000
Reslope	1	1	99.90	0.0000

Calibration Curve (C# : 01)

Conc (mg/L)	Abs
0.0125	0.0011
0.0250	0.0027
0.0500	0.0049
0.1000	0.0113

Abs=0.11548Conc-0.00041304

r=0.9975

2-п : UNK

	Conc.	Abs.	ActualConc.	Date	Time
	0.0014	0.0002	0.0014	8/14/2013	1:41:12 PM(+0600)

Supplementary 3. Test protocol for spectrometric analysis results (the example: determination of Zn concentration).

Zn(213.9nm)

File Comment:

Comment:
FlameCont

Instrument Information

Device Name: AA

Type	Model Name	ROM Version	S/N
AA	AA-7000F	1.01	A30665001722
ASC			
GFA			

Optics Parameters

Element:	Zn
Socket #:	5
Lamp Current Low(Peak)(mA):	8
Wavelength(nm):	213.9
Slit Width(nm):	0.7
Lamp Mode:	BGC-D2

Peak(nm) : 213.93

Measurement Parameters

Order:	1st
Zero Intercept:	Non-Pass
Conc. Unit:	mg/L
Repetition Sequence:	SM-SM-...
Pre-Spray Time (sec):	3
Integration Time (sec):	5
Response Time:	1

	Num Reps.	Max Reps.	RSD Limit	SD Limit
Blank	1	1	99.90	0.0000
Standard	3	3	99.90	0.0000
Sample	3	3	99.90	0.0000
Reslope	1	1	99.90	0.0000

Calibration Curve (C# : 01)

Conc (mg/L)	Abs
0.0125	0.0020
0.0250	0.0063
0.0500	0.0166
0.1000	0.0435

Abs=0.48000Conc-0.0054000

r=0.9967

5-n : UNK

Conc.	Abs.	ActualConc.	Date	Time
0.1800	0.0314	0.1800	8/12/2013	3:35:43 PM(+0600)