Annex A3

Laboratory analysis of soil samples for Polychlorinated Biphenyl (PCBs) & Polychlorinated dibenzo-pdioxins and dibenzofurans (PCDD/Fs)

A3.1 PURPOSE AND APPROACH

A3.1.1 PURPOSE OF THE ANALYSIS

To reassure the soil underneath the concrete pavement is not contaminated with Polychlorinated Biphenyl (PCBs) and Polychlorinated dibenzo-p-dioxins & dibenzofurans (PCDD/Fs) due to the operation of the CCPP.

A3.1.2 SOIL SAMPLING & TESTING

The site investigation was conducted during 21 to 22 February 2008. Soil samples were obtained from 6 sampling locations within the CCPP site (plus one QC sample). Soil sampling locations can be referred to Contamination Assessment Plan (CAP) and Contamination Assessment Report (CAR). At each location, soil samples are collected underneath the concrete pavement and at 1.5m below ground.

For the PCBs and PCDD/Fs testing, soil samples obtained from areas next to the rotary kiln, cyclone and the MRF building (where the residues are temporary stored after the completion of the trial) are analysed as these areas have the highest potential of dioxins contamination (if any) due to operation of the CCPP or release of the residues. As the CCPP has only operated for a very short period, it is considered adequate to analyse the samples collected underneath the concrete pavement.

A total of 3 soil samples will be analysed for dioxins (ie Samples S1, S5 and S7, please refer to *Figure 3.1a* of the CAR). The samples were sent to accredited chemical analysis laboratory for PCBs and PCDD/Fs testing.

A3.2 LABORATORY ANALYSIS RESULTS

The Laboratory analysis reports are attached in this *Annex*. Levels of PCBs, dioxins and furans analysed in all samples were well below the RBRG values for soil in industrial area. Detailed discussion and land contamination assessment should be referred to the *Chapter 4* of the *EIA Report*.

Annex No. 1 to test Report No. 12194/1/2008

Sample: HK0802860-1 S1

1. Measurement results PCDD/F:

Sample:	HK0802	860-1 S1			
			Final extract [µ1]:		75
Sample weight [g]:	5.2	240	Injection volume [µ1]:		2
Dry matter [%]:	91	.9	Acquisition date [d.m.;		12.6.08 20:59
2,3,7,8-PCDD/Fs	Content	Limit of	Limit of	¹ I-TEFs	I-TEQ
		Detection	Quantification		
	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
2,3,7,8-TCDD	0.0087	0.00030	0.00060	1	0.0087
1,2,3,7,8-PeCDD	0.026	0.00047	0.00094	0.5	0.013
1,2,3,4,7,8-HxCDD	0.015	0.00078	0.0016	0.1	0.0015
1,2,3,6,7,8-HxCDD	0.025	0.00078	0.0016	0.1	0.0025
1,2,3,7,8,9-HxCDD	0.021	0.00078	0.0016	0.1	0.0021
1,2,3,4,6,7,8-HpCDD	0.11	0.00088	0.0018	0.01	0.0011
OCDD	0.14	0.0015	0.0029	0.001	0.00014
2,3,7,8-TCDF	0.11	0.00033	0.00065	0.1	0.011
1,2,3,7,8-PeCDF	0.094	0.00047	0.00095	0.05	0.0047
2,3,4,7,8-PeCDF	0.11	0.00047	0.00095	0.5	0.053
1,2,3,4,7,8-HxCDF	0.08	0.00088	0.0018	0.1	0.0080
1,2,3,6,7,8-HxCDF	0.076	0.00088	0.0018	0.1	0.0076
1,2,3,7,8,9-HxCDF	0.0063	0.00088	0.0018	0.1	0.00063
2,3,4,6,7,8-HxCDF	0.044	0.00088	0.0018	0.1	0.0044
1,2,3,4,6,7,8-HpCDF	0.17	0.0010	0.0020	0.01	0.0017
1,2,3,4,7,8,9-HpCDF	0.015	0.0010	0.0020	0.01	0.00015
OCDF	0.023	0.0011	0.0021	0.001	0.000023
I-TEQ from quantifi	ed 2,3,7,8-PCE	D/Fs [ng 2,3,7	,8-TCDD/g dw]-"Low	erbound"	0.12
I-TEQ from quantified					0.029
I-TEQ from quantified	d 2,3,7,8-PCDF	s [ng 2,3,7,8-To	CDD/g dw]		0.092
			s [ng 2,3,7,8-TCDD/g dw]		0
Maximum possible I					0.12
PCDDs		[ng/g dw]	PCDFs	Content	[ng/g dw]
Tetra-CDDs	0.		Tetra-CDFs		4.4
Penta-CDDs	0.	68	Penta-CDFs	Fs 1.9	
Hexa-CDDs	0.		Hexa-CDFs		0.80
Hepta-CDDs	0.		Hepta-CDFs	(0.24
OCDD	0.	14	OCDF	0	.023
Total PCDDs	2	.2	Total PCDFs		7.4

¹I-TEF according to NATO.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total I-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

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Client: ALS Technichem (HK) Pty Ltd Project: Shipment No: 941708519728

Annex No. 1 to test Report No. 12194/1/2008

2. Measurement results PCB:

Sample:	HK0802	860-1 S1	Final extract [µ1]:		750
Sample weight [g]:	5.2	240	Injection volume [µ	ıl]:	2
Dry matter [%]:	91.9 Ac		Acquisition date [d.	.m.y h:m]:	12.6.08 22:01
	Content	Limit of	Limit of	¹ TEFs	TEQ
		Detection	Quantification		
mono- and di-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #105	< 0.13	0.0023	0.13	0.0001	0
PCB #114	< 0.017	0.0027	0.017	0.0005	0
PCB #118	< 0.17	0.0024	0.17	0.0001	0
PCB #123	< 0.0082	0.0027	0.0082	0.0001	0
PCB #156	< 0.058	0.0033	0.058	0.0005	0
PCB #157	< 0.014	0.0034	0.014	0.0005	0
PCB #167	< 0.022	0.0033	0.022	0.00001	0
PCB #170	< 0.020	0.0068	0.020	0.0001	0
PCB #180	< 0.058	0.0051	0.058	0.00001	0
PCB #189	n.d.	0.0051	0.010	0.0001	0
Total TEQ from quantified	mono- and di-or	tho PCBs [ng 2,3	,7,8-TCDD/g dw]		0
TEQ from n.d. and non quan	tified mono- and d	li-ortho PCBs [ng	2,3,7,8-TCDD/g dw]		0.000078
Maximum possible TEQ fr	om mono-and di-	ortho PCBs [ng 2	2,3,7,8-TCDD/g dw]		0.000078

Sample:	HK0802	860-1 S1	Final extract [µ1]:		750
Sample weight [g]:	5.2	v		Injection volume [µ1]:	
Dry matter [%]:	91			m.y h:m]:	12.6.08 22:01
	Content	Limit of	Limit of	¹TEFs	TEQ
		Detection	Quantification		
non-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #77	0.31	0.0024	0.091	0.0005	0.00015
PCB #81	0.044	0.0024	0.0048	-	-
PCB #126	0.095	0.0023	0.0047	0.1	0.0095
PCB #169	0.011	0.0040	0.0079	0.01	0.00011
Total TEQ from quantified	0.0097				
TEQ from n.d. and non quantified non-ortho PCBs [ng 2,3,7,8-TCDD/g dw]					0
Maximum possible TEQ fr	om non-ortho PC	Bs [ng 2,3,7,8-To	CDD/g dw]		0.0097

¹TEFs according to Ahlborg et al. 1994; Chemosphere, Vol. 28, No. 6, 1049-1067.

Estimation of uncertainty of each PCB congener is 30% and total TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined on the base of blank level or as double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 12194/1/2008

Sample: HK0802860-5 S5

1. Measurement results PCDD/F:

Sample:	HK0802	860-5 S5			
			Final extract [µl]:		75
Sample weight [g]:	4.7	'55	Injection volume [µ1]:		2
Dry matter [%]:	92	2.3	Acquisition date [d.m.y h:m]:		12.6.08 23:13
2,3,7,8-PCDD/Fs	Content	Limit of	Limit of	¹I-TEFs	I-TEQ
		Detection	Quantification		
	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
2,3,7,8-TCDD	n.d.	0.00035	0.00070	1	0
1,2,3,7,8-PeCDD	0.0015	0.00063	0.0013	0.5	0.00076
1,2,3,4,7,8-HxCDD	< 0.0019	0.00093	0.0019	0.1	0
1,2,3,6,7,8-HxCDD	0.0030	0.00093	0.0019	0.1	0.00030
1,2,3,7,8,9-HxCDD	0.0020	0.00093	0.0019	0.1	0.00020
1,2,3,4,6,7,8-HpCDD	0.018	0.0011	0.0022	0.01	0.00018
OCDD	0.23	0.0020	0.0039	0.001	0.00023
2,3,7,8-TCDF	0.0053	0.00042	0.00083	0.1	0.00053
1,2,3,7,8-PeCDF	0.0039	0.00059	0.0012	0.05	0.00020
2,3,4,7,8-PeCDF	0.0048	0.00059	0.0012	0.5	0.0024
1,2,3,4,7,8-HxCDF	0.0032	0.0010	0.0020	0.1	0.00032
1,2,3,6,7,8-HxCDF	0.0028	0.0010	0.0020	0.1	0.00028
1,2,3,7,8,9-HxCDF	n.d.	0.0010	0.0020	0.1	0
2,3,4,6,7,8-HxCDF	< 0.0020	0.0010	0.0020	0.1	0
1,2,3,4,6,7,8-HpCDF	0.0098	0.0012	0.0024	0.01	0.000098
1,2,3,4,7,8,9-HpCDF	n.d.	0.0012	0.0024	0.01	0
OCDF	0.0033	0.0014	0.0029	0.001	0.0000033
I-TEQ from quantifi	ed 2,3,7,8-PCD	D/Fs [ng 2,3,7	,8-TCDD/g dw]-"Lowe	erbound"	0.0055
I-TEQ from quantified					0.0017
I-TEQ from quantified					0.0038
			s [ng 2,3,7,8-TCDD/g d	w]	0.00085
Maximum possible I					0.0063
PCDDs		[ng/g dw]	PCDFs		[ng/g dw]
Tetra-CDDs)40	Tetra-CDFs		0.21
Penta-CDDs		069	Penta-CDFs		.091
Hexa-CDDs		074	Hexa-CDFs		0.035
Hepta-CDDs)38	Hepta-CDFs		.014
OCDD		23	OCDF		0033
Total PCDDs	0.	45	Total PCDFs		0.35

¹I-TEF according to NATO.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total I-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with $S/N \ge 3$.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 12194/1/2008

2. Measurement results PCB:

Sample:	HK0802	2860-5 S5	Final extract [µ1]:		750
Sample weight [g]:	4.′	755	Injection volume [µ1]:		2
Dry matter [%]:	92	92.3 Acquisition		.m.y h:m]:	13.6.08 0:15
	Content	Limit of	Limit of	¹ TEFs	TEQ
		Detection	Quantification		
mono- and di-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #105	< 0.034	0.0022	0.034	0.0001	0
PCB #114	n.d.	0.0025	0.0050	0.0005	0
PCB #118	< 0.089	0.0023	0.089	0.0001	0
PCB #123	n.d.	0.0025	0.0051	0.0001	0
PCB #156	< 0.012	0.0031	0.012	0.0005	0
PCB #157	n.d.	0.0033	0.0067	0.0005	0
PCB #167	< 0.0072	0.0031	0.0072	0.00001	0
PCB #170	< 0.030	0.0064	0.030	0.0001	0
PCB #180	< 0.068	0.0048	0.068	0.00001	0
PCB #189	n.d.	0.0053	0.011	0.0001	0
Total TEQ from quantified	mono- and di-or	tho PCBs [ng 2,3	,7,8-TCDD/g dw]		0
TEQ from n.d. and non quan	tified mono- and c	li-ortho PCBs [ng	2,3,7,8-TCDD/g dw]		0.000026
Maximum possible TEQ fr	om mono-and di-	ortho PCBs [ng 2	2,3,7,8-TCDD/g dw]		0.000026

Sample:	HK0802	HK0802860-5 S5 F		Final extract [µ1]:	
Sample weight [g]:	4.755 In		Injection volume [µl	Injection volume [µ1]:	
Dry matter [%]:	92	2.3	Acquisition date [d.r	n.y h:m]:	13.6.08 0:15
	Content	Limit of	Limit of	¹ TEFs	TEQ
		Detection	Quantification		
non-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #77	< 0.040	0.0023	0.040	0.0005	0
PCB #81	n.d.	0.0022	0.0045	-	-
PCB #126	< 0.0051	0.0025	0.0051	0.1	0
PCB #169	n.d.	0.0052	0.010	0.01	0
Total TEQ from quantified	l non-ortho PCBs	[ng 2,3,7,8-TCD	D/g dw]		0
TEQ from n.d. and non quar	tified non-ortho Po	CBs [ng 2,3,7,8-T	CDD/g dw]		0.00058
Maximum possible TEQ fr	om non-ortho PC	Bs [ng 2,3,7,8-To	CDD/g dw]		0.00058

¹TEFs according to Ahlborg et al. 1994; Chemosphere, Vol. 28, No. 6, 1049-1067.

Estimation of uncertainty of each PCB congener is 30% and total TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined on the base of blank level or as double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 12194/1/2008

Sample: HK0802860-71 S7

1. Measurement results PCDD/F:

Sample:	HK0802	860-7 S7			
			Final extract [µ1]:		75
Sample weight [g]:	4.9	51	Injection volume [µ1]:		2
Dry matter [%]:	83	.6	Acquisition date [d.m.y h:m]:		13.6.08 1:27
2,3,7,8-PCDD/Fs	Content	Limit of	Limit of	¹ I-TEFs	I-TEQ
		Detection	Quantification		
	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
2,3,7,8-TCDD	< 0.00081	0.00040	0.00081	1	0
1,2,3,7,8-PeCDD	0.0019	0.00063	0.0013	0.5	0.00095
1,2,3,4,7,8-HxCDD	< 0.0020	0.0010	0.0020	0.1	0
1,2,3,6,7,8-HxCDD	0.0023	0.0010	0.0020	0.1	0.00023
1,2,3,7,8,9-HxCDD	< 0.0020	0.0010	0.0020	0.1	0
1,2,3,4,6,7,8-HpCDD	0.014	0.0013	0.0025	0.01	0.00014
OCDD	0.20	0.0020	0.0040	0.001	0.00020
2,3,7,8-TCDF	0.0087	0.00045	0.0009	0.1	0.00087
1,2,3,7,8-PeCDF	0.0056	0.00062	0.0012	0.05	0.00028
2,3,4,7,8-PeCDF	0.0065	0.00062	0.0012	0.5	0.0033
1,2,3,4,7,8-HxCDF	0.0058	0.0012	0.0024	0.1	0.00058
1,2,3,6,7,8-HxCDF	0.0053	0.0012	0.0024	0.1	0.00053
1,2,3,7,8,9-HxCDF	n.d.	0.0012	0.0024	0.1	0
2,3,4,6,7,8-HxCDF	0.0031	0.0012	0.0024	0.1	0.00031
1,2,3,4,6,7,8-HpCDF	0.017	0.0014	0.0028	0.01	0.00017
1,2,3,4,7,8,9-HpCDF	n.d.	0.0014	0.0028	0.01	0
OCDF	0.0042	0.0015	0.0029	0.001	0.0000042
I-TEQ from quantifi	ed 2,3,7,8-PCD	D/Fs [ng 2,3,7	,8-TCDD/g dw]-"Low	erbound"	0.0075
I-TEQ from quantified					0.0015
I-TEQ from quantified	d 2,3,7,8-PCDF	s [ng 2,3,7,8-TC	CDD/g dw]		0.0060
I-TEQ from n.d. and r	non quantified 2	,3,7,8-PCDD/F	Ss [ng 2,3,7,8-TCDD/g dw]		0.0013
Maximum possible I-	-TEQ [ng 2,3,7	,8-TCDD/g dw]-"Upperbound"		0.0089
PCDDs	Content	[ng/g dw]	PCDFs	Content	[ng/g dw]
Tetra-CDDs	0.0	39	Tetra-CDFs	0	.29
Penta-CDDs	0.0	50	Penta-CDFs		.13
Hexa-CDDs	0.0)48	Hexa-CDFs		059
Hepta-CDDs	0.0		Hepta-CDFs		023
OCDD		20	OCDF		0042
Total PCDDs	0	37	Total PCDFs	0	.51

¹I-TEF according to NATO.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total I-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with $S/N \ge 3$.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 12194/1/2008

2. Measurement results PCB:

Sample:	HK0802	860-7 S7	Final extract [µl]:		750
Sample weight [g]:	4.9	951	Injection volume [μ1]:		2
Dry matter [%]:			Acquisition date [d.	m.y h:m]:	13.6.08 2:29
	Content	Limit of	Limit of	¹ TEFs	TEQ
		Detection	Quantification		
mono- and di-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #105	< 0.041	0.0026	0.041	0.0001	0
PCB #114	n.d.	0.0030	0.0059	0.0005	0
PCB #118	< 0.096	0.0027	0.096	0.0001	0
PCB #123	n.d.	0.0030	0.0059	0.0001	0
PCB #156	< 0.017	0.0034	0.017	0.0005	0
PCB #157	n.d.	0.0036	0.0071	0.0005	0
PCB #167	< 0.0075	0.0034	0.0075	0.00001	0
PCB #170	< 0.024	0.0071	0.024	0.0001	0
PCB #180	< 0.071	0.0053	0.071	0.00001	0
PCB #189	n.d.	0.0051	0.010	0.0001	0
Total TEQ from quantified	mono- and di-or	tho PCBs [ng 2,3	,7,8-TCDD/g dw]		0
TEQ from n.d. and non quan	tified mono- and d	li-ortho PCBs [ng	2,3,7,8-TCDD/g dw]		0.000029
Maximum possible TEQ fr	om mono-and di-	ortho PCBs [ng 2	2,3,7,8-TCDD/g dw]		0.000029

Sample:	HK0802	HK0802860-7 S7		Final extract [µ1]:	
Sample weight [g]:	4.9	4.951 Ir		Injection volume [µ1]:	
Dry matter [%]:	8:			n.y h:m]:	13.6.08 2:29
	Content	Limit of	Limit of	¹ TEFs	TEQ
		Detection	Quantification		
non-orthoPCBs	[ng/g dw]	[ng/g dw]	[ng/g dw]		[ng/g dw]
PCB #77	< 0.057	0.0026	0.057	0.0005	0
PCB #81	n.d.	0.0025	0.0050	-	-
PCB #126	< 0.0053	0.0026	0.0053	0.1	0
PCB #169	n.d.	0.0048	0.010	0.01	0
Total TEQ from quantif	ied non-ortho PCBs	[ng 2,3,7,8-TCD	DD/g dw]		0
TEQ from n.d. and non qu	uantified non-ortho P	CBs [ng 2,3,7,8-T	CDD/g dw]		0.00061
Maximum possible TEQ	from non-ortho PC	Bs [ng 2,3,7,8-T	CDD/g dw]		0.00061

¹TEFs according to Ahlborg et al. 1994; Chemosphere, Vol. 28, No. 6, 1049-1067.

Estimation of uncertainty of each PCB congener is 30% and total TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

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The limits of quantification are defined on the base of blank level or as double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with $S/N \ge 3$.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

[&]quot;Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





Prague: 22.7.2008

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Test Report No. 12194 / 1 / 2008

Project: Shipment No.: 941708519728

Date of sampling: 22.2.2008 **Date of receipt:** 9.6.2008

Sampling procedure: Sampling was performed by the client

Date of test performance: 9.6. - 16.6.2008

Place of test performance: ALS Czech Republic, s.r.o., Laboratoř HRMS, V Ráji 906, 530 02 Pardubice

Test specification, deviations, additions to or exclusions from the test specification and any other information:

D06_06_173 Determination of sum PCB and planar congeners PCB by HRMS by internal instruction. Analysed by

HRGC/HRMS syst. - Agilent 6890N/Finnigan MAT 95XP resp. Trace GC Ultra/DFS. Resol. HRMS: 10000. GC

column: RTX-500 60 m, 0,25 mm ID; film 0,1 µm

D06_06_175 Determination of polychlorinated dibenzo-p-dioxins and dibenzofurans according to US EPA 1613.

Analysed by technique: HRGC/HRMS system - Agilent 6890N/Finnigan MAT 95XP resp. Trace GC

Ultra/DFS. Resolution HRMS: 10000

Measurement results

sample name	HK0802860-1	HK0802860-5	HK0802860-7			
	S1	S5	S7			
matrix	soil	soil	soil			
parameter	result ми	result ми	result ми	unit	test specification	n
Dry matter at 105 °C	91,9 ±2	92,3 ±2	83,6 ±2	%	D06_06_175	A
I-TEQ (PCDD/F) lowerbound	0,12 ±20	0,0055 ±20	0,0075 ±20	ng/g dw	D06_06_175	A
I-TEQ (PCDD/F) upperbound	0,12	0,0063	0,0089	ng/g dw	D06_06_175	A
I-TEQ (PCB) lowerbound	0,0097 ±20	O ±20	O ±20	ng/g dw	D06_06_173	A
I-TEQ (PCB) upperbound	0,0098	0,00061	0,00064	ng/g dw	D06_06_173	A

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The laboratory declares that the test results relate only to the items tested and do not substitute any other documents.

Ing. Emilie Pokorna Quality Manager

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Customer: ALS Technichem (HK) Pty Ltd Test Report No. 12194 / 1 / 2008

Project: Shipment No.: 941708519728 Date of sampling: 22.2.2008

Measurement uncertainty (MU [%]) is expressed as expanded measurement uncertainty with coverage factor k = 2, representing of 95 % significance level.

Parameters indexed by 'A' in the last column of the table are accredited, parameters indexed by 'N' are not accredited.

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