Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs, Water－1)

No.		1											2	3					4		5	6	
SPEED'98 No.		2											4	12					14		15	16	
		Polychlorinated biphenyls (PCBs)												Hexachlorocyclohexane					Chlordane				
No.	Specimen collection site	Chlorinated biphenyl	Dichloro biphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*	Hexachlorobenzene(HCB)	α-HCH	β-HCH	γ-HCH	δ-HCH	HCH total*	cis-Chlordane	trans-Chlordane	Oxychlordane	trans-Nonachlor	cis-Nonacholr
Unit		μg/L																					
1	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
2	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
3	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
4	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
5	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
6	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
7	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
8	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
9	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
10	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
11	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
12	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
13	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
14	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
15	Yamada Ryokuchi	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
16	Place selected for comparison purposes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
17	Place selected for comparison purposes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
18	Place selected for comparison purposes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03
19	Place selected for comparison purposes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	<0.03	<0.03	<0.03	<0.03	<0.03	0	<0.03	<0.03	<0.03	<0.03	<0.03

* Calculated on the assumption that a value below the limit of detection is counted s 0.

Results of 1998 Research on Effects of Endocrine Disruptin Chemicals on Wildlife (Frogs, Water-2)

No.		7		8				9	10	11	12	13	14	15	16	17	18	19	20		
SPEED'98 No.		18		19				23	25	26	43	33	34			9	11	35	36		
		DDT		DDE and DDD															Alkyl Phenol		
No.	Specimen collection site	o,p'-DDT	p,p'-DDT	o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD	Dieldrin	Heptachlor	Heptachlor epoxide	Benzo(a)epoxide	Tributyltin	Triphenyltin	Dibutyltin	Monobutyltin	Atrazine	CAT (Simazine)	Trifluralin	Nonyl phenol	4—t-Octyle phenol	4—n-Octyl phenol
Unit		μg/L																			
1	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
2	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.2	<0.01	<0.01
3	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.1	<0.01	<0.01
4	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
5	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
6	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.2	<0.01	<0.01
7	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.1	<0.01	<0.01
8	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
9	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.2	<0.01	<0.01
10	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
11	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
12	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
13	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.2	<0.01	<0.01
14	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.2	<0.01	<0.01
15	Yamada Ryokuchi	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
16	Place selected for comparison purposes	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	0.1	<0.01	<0.01
17	Place selected for comparison purposes	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
18	Place selected for comparison purposes	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01
19	Place selected for comparison purposes	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.01	<0.001	<0.002	<0.004	<0.02	<0.02	<0.02	<0.01	<0.1	<0.01	<0.01

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs, Water－3)

No.		21	22	23	24	25	26	27	28													30	32
SPEED'98 No.		37	38	39	40	42	45		66														
									Styrene dimers and trimers														
No.	Specimen collection site	Bisphenol A	Di-(2-entylhexyl) phthalate	Butyl benzyl phthalate	Di-n-butyl-phthalate	Diethyle phthalate	Di-2-enthylhexyl adipate	Styrene monomer	Styrene dimers*	1,,3-Diphenylpropane	cis-1,2-Diphenylcyclobutane	trans-1,2-Diphenylcyclobutane	2,4-Diephenyl-1-butene	Styrene trimers*	2,4,6-Triphenyl-1-hexane	1a-7a-4a-(1-phenylethyl) tetralin	1a-7a-4a-(2-phenylethyl) tetralin	1a-7a-4a-(3-phenylethyl) tetralin	1a-7a-4a-(4-phenylethyl) tetralin	1e,3e,5a-Triphenylcyclohexane	1e,3e,6a-Triphenylcyclohexane	17β-estradiol	Ethynyl estradiol
Unit		μg/L																					
1	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	<0.002
2	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.007	<0.002
3	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005	<0.002
4	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.004	<0.002
5	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005	<0.002
6	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.008	<0.002
7	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.009	<0.002
8	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
9	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	0.33	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
10	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	<0.002
11	Yamada ryokuchi	0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.007	<0.002
12	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
13	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
14	Yamada ryokuchi	0.02	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.007	<0.002
15	Yamada ryokuchi	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
16	Place selected for comparison purposes	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002
17	Place selected for comparison purposes	0.03	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005	<0.002
18	Place selected for comparison purposes	0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	<0.002
19	Place selected for comparison purposes	<0.01	<0.5	<0.2	<0.5	<0.2	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.003	<0.002

* Calculated on the assumption thatt values below the limit of detection are counted as 0.

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs, Soil/Sediment－1)

(Concentration per dry weight)

		No.	1										2	3					4		5	6	
		SPEED'98 No.	2										4	12					14		15	16	
			Polychlorinated biphenyls (PCBs)											Hexachlorocyclohexane					Chlordane				
Specimen	No.	Specimen collection site	Chlorinated biphenyl	Dichloro biphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*	Hexachlorobenzene (HCB)	α-HCH	β-HCH	γ-HCH	δ-HCH	HCH total*	cis-Chlordane	trans-Chlordane	Oxychlordane	trans-Nonachlor	cis-Nonachlor
		Unit	μg/kg-dry																				
Soil	1	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	2	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	3	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	4	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	5	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	6	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	7	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
Sediment	1	Yamada Ryokuchi	<1	<1	<1	5	42	14	<1	<1	<1	<1	61	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	2	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	3	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	4	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	5	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	6	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	7	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	8	Yamada Ryokuchi	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	9	Place selected for comparision purposes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	10	Place selected for comparision purposes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	11	Place selected for comparision purposes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
	12	Place selected for comparision purposes	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5

* Calculated on the assumption that values below the limit of detection are counted as 0.

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs, Soil/Sediment-2)

(Concentration per dry weight)

		No.	7		8				9	10	11	12	13	14	15	16	17	18	19	20		
		SPEED'98 No.	18		19				23	25	26	43	33	34			9	11	35	36		
			DDT		DDE and DDD															Alkyl phenol		
Specimen	No.	Specimen collection site	o,p'-DDT	p,p'-DDT	o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD	Dieldrin	Heptachlor	Heptachlor epoxide	Benzo(a)pyrene	Tributyltin	Triphenyltin	Dibutyltin	Monobutyltin	Atrazine	CAT (Simazine)	Trifluralin	Nonyl phenol	4-t-Octyl phenol	4-n-Octyl phenol
		Unit	μg/kg-dry																			
Soil	1	Yamada Ryokuchi	<5	<5	<5	13	<5	<5	<5	<5	<5	187	<20	<20	<100	<200	<1.2	<1.2	<1.2	<36	<3.6	<3.6
	2	Yamada Ryokuchi	9	67	<5	84	14	36	<5	<5	<5	215	<20	<20	<100	<200	<0.8	<0.8	<0.8	<23	<2.3	<2.3
	3	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	81	<20	<20	<100	<200	<0.8	<0.8	<0.8	<25	<2.5	<2.5
	4	Yamada Ryokuchi	<5	26	<5	19	<5	<5	<5	<5	<5	70	<20	<20	<100	<200	<0.7	<0.7	<0.7	<23	<2.3	<2.3
	5	Yamada Ryokuchi	<5	9	<5	7	<5	9	<5	<5	<5	185	<20	<20	<100	<200	<1.0	<1.0	<1.0	<30	<3.0	<3.0
	6	Yamada Ryokuchi	9	37	<5	11	<5	7	<5	<5	<5	258	<20	<20	<100	<200	<0.7	<0.7	<0.7	<22	<2.2	<2.2
	7	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	108	<20	<20	<100	<200	<0.8	<0.8	<0.8	<24	<2.4	<2.4
Sediment	1	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	119	<20	<20	<100	<200	<2.9	<2.9	<2.9	<87	<8.7	<8.7
	2	Yamada Ryokuchi	<5	93	24	154	122	425	<5	<5	<5	341	<20	<20	<100	<200	<3.5	<3.5	<3.5	692	<10.5	<10.5
	3	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	75	<20	<20	<100	<200	<1.0	<1.0	<1.0	<23	<2.3	<2.3
	4	Yamada Ryokuchi	<5	27	<5	32	<5	15	<5	<5	<5	75	<20	<20	<100	<200	<1.1	<1.1	<1.1	<34	<3.4	<3.4
	5	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	25	<20	<20	<100	<200	<1.0	<1.0	<1.0	<29	<2.9	<2.9
	6	Yamada Ryokuchi	<5	<5	<5	12	<5	9	<5	<5	<5	52	<20	<20	<100	<200	<1.2	<1.2	<1.2	<35	<3.5	<3.5
	7	Yamada Ryokuchi	<5	<5	<5	<5	<5	<5	<5	<5	<5	45	<20	<20	<100	<200	<0.9	<0.9	<0.9	<27	<2.7	<2.7
	8	Yamada Ryokuchi	<5	<5	<5	8	<5	<5	<5	<5	<5	97	<20	<20	<100	<200	<1.5	<1.5	<1.5	674	<4.5	<4.5
	9	Place selected for comparison purposes	<5	<5	<5	<5	<5	<5	<5	<5	<5	15	<20	<20	<100	<200	<0.9	<0.9	<0.9	<26	<2.6	<2.6
	10	Place selected for comparison purposes	<5	<5	<5	<5	<5	<5	<5	<5	<5	56	<20	<20	<100	<200	<1.3	<1.3	<1.3	<38	<3.8	<3.8
	11	Place selected for comparison purposes	<5	<5	<5	<5	<5	<5	<5	<5	<5	21	<20	<20	<100	<200	<0.8	<0.8	<0.8	<25	<2.5	<2.5
	12	Place selected for comparision purposes	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<20	<100	<200	<0.7	<0.7	<0.7	<19	<1.9	<1.9

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs, Soil/Sediment-3)

(Concentration per dry weight)

		No.	21	22	23	24	25	26	27	28																30	32
		SPEED'98 No.	37	38	39	40	42	45		66																	
										Styrene dimers and trimers																	
Specimen	No.	Specimen collection site	Bisphenol A	Di-(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Di-n-butyl- phthalate	Diethyl phthalate	Di-2-ethylhexyl adipate	Styrene monomer	Styrene dimers*	1,3-Diphenylpropane	cis-1,2-Diphenylcyclobutane	trans-1,2-Diphenylcyclobutane	2,4-Diephenyl-1-butene	Styrene trimers*	2,4,6-Triphenyl-1-hexane	1a-phenyl-4a-(1-phenylethyl) tetralin	1a-phenyl-4e-(1-phenylethyl) tetralin	1e-phenyl-4a-(1-phenylethyl) tetralin	1e-phenyl-4e-(1-phenylethyl) tetralin	1e,3e,5a-Triphenylcyclohexane	1e,3e,5e-Triphenylcyclohexane	17 β-estradiol	Ethynyl estradiol
		Unit						μ g/kg-dry																				
Soil	1	Yamada Ryokuchi	<15	<60	<24	<60	<24	<24	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	2.5	<0.5
	2	Yamada Ryokuchi	<10	<39	<15	<39	<15	<15	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.9	<0.5
	3	Yamada Ryokuchi	<10	<42	<17	<42	<17	<17	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.7	<0.5
	4	Yamada Ryokuchi	<10	<37	<15	<37	<15	<15	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.4	<0.5
	5	Yamada Ryokuchi	<10	929	<20	<50	<20	<20	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	2.1	<0.5
	6	Yamada Ryokuchi	<10	108	<15	99	<15	<15	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.5	<0.5
	7	Yamada Ryokuchi	<10	<39	<16	<39	<16	<16	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.5	<0.5
Sediment	1	Yamada Ryokuchi	<30	<145	<58	<145	<58	<58	<3	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	2.3	<0.5
	2	Yamada Ryokuchi	<35	259	<70	<175	<70	<70	<3	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	9.0	<0.5
	3	Yamada Ryokuchi	<15	<51	<20	<51	<20	<20	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	1.7	<0.5
	4	Yamada Ryokuchi	152	1,586	<23	<56	<23	<23	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	1.2	<0.5
	5	Yamada Ryokuchi	<10	210	<19	<48	<19	<19	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	1.7	<0.5
	6	Yamada Ryokuchi	54	630	<24	<59	<24	<24	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	3.1	<0.5
	7	Yamada Ryokuchi	<10	<45	<18	<45	<18	<18	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.6	<0.5
	8	Yamada Ryokuchi	<20	450	<30	<76	<30	<30	<2	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	4.1	<0.5
	9	Place selected for comparison purposes	32	837	<18	<44	<18	<18	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	0.9	<0.5
	10	Place selected for comparison purposes	128	1,766	<25	<63	<25	<25	<2	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	4.2	<0.5
	11	Place selected for comparison purposes	<10	1,344	<16	<41	<16	<16	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	1.6	<0.5
	12	Place selected for comparision purposes	<10	226	<13	<33	<13	<13	<1	0	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	<5	<5	<0.2	<0.5

* Calculated on the assumption that values below the limit of detection are counted as 0.