

ภาคผนวก ฉ
หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



ลำดับ	สารเคมี	วิธีการตรวจ
38	Phenols	1) Distillation, Chloroform Extraction Method ²¹ 2) Distillation, Direct Photometric Method ²¹
39	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
40	Sulfide	1) Iodometric Method ²¹ 2) Methylene Blue Method ²¹
41	Temperature	Laboratory and Field Methods ²¹
42	Total Dissolved Solids	Oried at 160 °C ²¹
43	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method ²¹
44	Total Suspended Solids	Dried from 103 to 105 °C ²¹
45	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹
46	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

ข้อมูล สารตัว 126 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Acenaphthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
2	Acetone	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
3	Alidin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
4	Anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
5	Antimony	Digestion, Inductively Coupled Plasma Method ²¹
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
8	Barium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
9	Benzalanthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
11	Benzo(b)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
12	Benzo(k)fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
14	Benzo(a)pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
15	Benzo(g,h,i)perylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
16	Beryllium	Digestion, Inductively Coupled Plasma Method ²¹
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ²¹ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ²¹
35	Chromium (VI)	1) Colorimetric Method ²¹ 2) Extraction, Air-Acetylene Flame Method ²¹
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
37	Cyanide	Distillation, Colorimetric Method ²¹
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ²¹
39	DDO	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
42	Dibenz(a,h)anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
56	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
63	Di n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
65	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
66	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
73	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
74	α-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
79	Indeno[1,2,3-cd]pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ²¹
84	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ²¹
86	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
87	Methylene chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
95	N-Nitrosodipropylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
98	pH	Electrometric Method ²¹
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
100	Phenol	1) Distillation, Chloroform Extraction Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Digestion, Inductively Coupled Plasma Method ²¹
103	Silver	Digestion, Inductively Coupled Plasma Method ²¹
104	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
107	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
108	Triaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ²¹ 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
109	TPH (C ₅ - C ₉)	1) Purge and Trap, Gas Chromatographic Method ^{21,22} 2) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^{21,23}
110	TPH (C ₁₀ - C ₁₄)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,24}
111	TPH (C ₁₅ - C ₂₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,24}
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
115	Trichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ²¹
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹

ลำดับ	สารเคมี	วิธีการตรวจ
119	Vanadium	Digestion, Inductively Coupled Plasma Method ²¹
120	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
121	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
122	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
123	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
124	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
125	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ²¹
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

สรุปกฎหรือวิธีปฏิบัติในหัวข้อ จำนวน 35 ข้อ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
2	Antimony	Digestion, Inductively Coupled Plasma Method ^{21,22}
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{1,11} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,23} 3) Digestion, Hydride Generation/ Spectrometric Method ^{1,11} 4) Digestion, Inductively Coupled Plasma Method ^{21,23}
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,23} 2) Digestion, Inductively Coupled Plasma Method ^{21,23}

ลำดับ	สารเคมี	วิธีการตรวจ
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,23} 2) Digestion, Inductively Coupled Plasma Method ^{21,23}
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{21,12} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,12} 4) Digestion, Inductively Coupled Plasma Method ^{21,12}
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{21,12} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,12} 4) Digestion, Inductively Coupled Plasma Method ^{21,12}
9	Chromium (III)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^{1,4,12,13} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^{1,4,12,13} 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{2,11,13} 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{2,11,13}
10	Chromium (VI)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{1,4,12,13} 2) Alkaline Digestion, Colorimetric Method; Calculation ^{1,4,12,13}
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,12} 2) Digestion, Inductively Coupled Plasma Method ^{21,12}

ลำดับ	สารเคมี	วิธีการตรวจ
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{1,12} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,12} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,12} 4) Digestion, Inductively Coupled Plasma Method ^{21,12}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
14	DOD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
15	ODE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{2,21} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{2,21}

ลำดับ	สารเคมี	วิธีวิเคราะห์
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.11) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(1.13) 4) Digestion, Inductively Coupled Plasma Method ^(1.14)
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.23)
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1.14) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1.15) 4) Digestion, Inductively Coupled Plasma Method ^(1.14) 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(1.16)
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.21)
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 2) Digestion, Inductively Coupled Plasma Method ^(1.12)
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.11) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 3) Digestion, Inductively Coupled Plasma Method ^(1.12) 4) Digestion, Inductively Coupled Plasma Method ^(1.12)

26 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีวิเคราะห์
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',5-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5'-Tetrachlorobiphenyl - 2,2',5,5'-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4',6'-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,5,5',6'-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4',5,5',6'-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.22) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.23)

27 Pentachlorophenol...

ลำดับ	สารเคมี	วิธีวิเคราะห์
27	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1.24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1.25) Electrometric Method ^(1.26)
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1.11) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1.11) 4) Digestion, Inductively Coupled Plasma Method ^(1.12)
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 2) Digestion, Inductively Coupled Plasma Method ^(1.12)
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 2) Digestion, Inductively Coupled Plasma Method ^(1.12)
32	Tonaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1.21) 2) Ultrasonic Extraction, Gas Chromatographic Method ^(1.21)
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1.22) 2) Waste Extraction, Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(1.23) 3) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1.23) 4) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method ^(1.23)
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 2) Digestion, Inductively Coupled Plasma Method ^(1.12)

ลำดับ	สารเคมี	วิธีวิเคราะห์
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1.11) 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1.12) 3) Digestion, Flame Atomic Absorption Spectrometric Method ^(1.11) 4) Digestion, Inductively Coupled Plasma Method ^(1.12)

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ที่ ๓๓ ๐๓๓๐(๑)/ ๖ ๐ ๒ ๘



กรมโรงงานอุตสาหกรรม
ถนนพหลโยธินที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๒๒ มีนาคม ๒๕๖๖

เรื่อง เปลี่ยนแปลงบุคลากรและสารเคมีที่ใช้วิเคราะห์

เรียน กรรมการผู้จัดการ บริษัท ยูโนเด็ค แอเมซอน จำกัด

อ้างถึง การยื่นขอเปลี่ยนบุคลากร/เปลี่ยนแปลงบุคลากร และชนิดสารเคมีของห้องปฏิบัติการวิเคราะห์ภายใน
เมื่อวันที่ ๓๐ มกราคม ๒๕๖๖

สิ่งที่ส่งมาด้วย เอกสารแบบฟอร์มยื่นขอเปลี่ยนแปลงบุคลากรและสารเคมีที่ใช้วิเคราะห์

บริษัท ยูโนเด็ค แอเมซอน จำกัด เป็นนิติบริษัท คอนเทนเนอร์ จำกัด จำนวน ๖ แห่ง

ตามหนังสือที่อ้างถึง บริษัท ยูโนเด็ค แอเมซอน จำกัด เป็นนิติบริษัท คอนเทนเนอร์ จำกัด
เพื่อปฏิบัติการวิเคราะห์ภายใน เลขทะเบียน ๖-๓๔๕ ตามหนังสือที่ ๕ ของคุณสมชาย ๓๓ ถนนสุขุมวิท
แขวงบางจาก เขตพระโขนง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากรและสารเคมีที่ใช้วิเคราะห์
ความละเอียดเพิ่มเติม ดังนี้

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ไม่ยกเลิกเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๒ ราย

๑) นายวิชาญ สุวรรณราช ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๐๓๖

๒) นายพิพัฒน์ ศิรินามกุล ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๐๓๗

๒. ให้เพิ่มเจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์ จำนวน ๑๑ ราย

๑) นางสาวอรุณภา ประชาศิริ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๒

๒) นายสมศักดิ์ เวียงนิมิต ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๓

๓) นายสุภากร สว่างศรี ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๔

๔) นายพนมกร ศิธานนท์ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๕

๕) นายเชษฐาธิ์ ทุปป์โธว ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๖

๖) นายณวัฒน์ กสิย์ปานมากร ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๗

๗) นายธีรวัฒน์ อรรถสุวรรณ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๘

๘) นายวิฑูรย์ ธรรมเทศ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๑๙

๙) นางสาวสุวิภาดา พลนิกรกิจ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๒๐

๑๐) นางสาวปาริชาติ ทองบุญมี ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๒๑

๑๑) นางสาวพรจิรา จงนันทิยาภรณ์ ทะเบียนเลขที่ ๖-๓๔๕-๑-๐๑๒๒

๓. ให้เพิ่มช่างซ่อมบำรุงเครื่องใช้ในห้องปฏิบัติการ จำนวน ๑ คน



ดำเนินการ

อนึ่ง..

อนึ่ง หนังสือฉบับนี้จะหมดอายุเมื่อพ้นระยะเวลาที่ระบุไว้ข้างต้นหรือเมื่อพ้นระยะเวลาที่ระบุไว้ใน
ที่ ๓๓ ๐๓๓๐(๑)/๓๔๕๕ ลงวันที่ ๓ กุมภาพันธ์ ๒๕๖๕ คือในวันที่ ๒ กุมภาพันธ์ ๒๕๖๕ ทั้งนี้ สามารถยื่นคำขอ
ผ่านระบบอิเล็กทรอนิกส์ได้ที่เว็บไซต์ของกรมโรงงานอุตสาหกรรม ตาม QR Code ที่แนบมาซึ่งมีดังนี้
จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

นายสมชาย ตรีสาร
ผู้อำนวยการกองโรงงานและสิ่งแวดล้อม
ผู้ตรวจราชการสำนักเลขาธิการ



ยื่นคำขอผ่านระบบอิเล็กทรอนิกส์

กรณีมีข้อสงสัยเกี่ยวกับหนังสือแจ้งงาน

กรุณาติดต่อฝ่ายบริหารงานทั่วไปของกรมโรงงานอุตสาหกรรม โทร. ๐ ๒๕๖๐ ๒๕๖๑ ต่อ ๒๒๐๓-๕

โทรสาร ๐ ๒๕๖๐ ๒๕๖๑ ต่อ ๒๒๐๓-๕

ไปรษณีย์อิเล็กทรอนิกส์ sae@dgcr.doe.go.th



ดำเนินการ



"อุตสาหกรรมก้าวไกล ประเพณีก้าวหน้า ร่วมมือพัฒนาอุตสาหกรรมสีเขียว"



เอกสารแนบท้ายหนังสือเปลี่ยนแปลงบุคลากรและสารเคมีที่ใช้วิเคราะห์

บริษัท ยูโนเด็ค แอเมซอน จำกัด เป็นนิติบริษัท คอนเทนเนอร์ จำกัด เลขทะเบียน ๖-๓๔๕

ที่ ๓๓ ๐๓๓๐(๑)/ ๖ ๐ ๒ ๘

ลงวันที่ ๒๒ มีนาคม ๒๕๖๖

ขอประชาสัมพันธ์ให้ได้รับทราบจากการแจ้งงานอุตสาหกรรม จำนวน ๑๖ รายการ

ยื่น จำนวน 16 รายการ

ลำดับที่	สารเคมี	วิธีวิเคราะห์
1	Benzene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
2	Carbon tetrachloride	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
3	1,2-Dichloroethane	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
4	1,1-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
5	cis-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
6	trans-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
7	Ethylbenzene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
8	Methylene chloride	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
9	Styrene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
10	Tetrachloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
11	Toluene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
12	Trichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
13	m-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
14	o-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
15	p-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)
16	Xylene (Total)	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1,2)

เอกสารอ้างอิง..

เอกสารอ้างอิง

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Waste Physical/Chemical Methods. Volatile Organic Compounds in Various Sample Matrices
Using Equilibrium Headspace Analysis. SW-846 Method 5021A, 2014.

2. United States Environmental Protection Agency. Test Methods for Evaluation Solid
Waste Physical/Chemical Methods. Volatile Organic Compounds in Various Sample Matrices
Using Equilibrium Headspace Analysis. SW-846 Method 8260D, 2016.



ดำเนินการ

เอกสารแนบท้ายหนังสือแจ้งงานเปลี่ยนแปลงบุคลากรและสารเคมีที่ใช้วิเคราะห์ ลงวันที่ ๒๒ มีนาคม ๒๕๖๖
กรมโรงงานอุตสาหกรรม โทร. ๐ ๒๕๖๐ ๒๕๖๑ ต่อ ๒๒๐๓-๕

உங்களுடைய

ປະສິດທິພາບ 46.3%

16 o,p'-DDT...36 Oil & Grease.4 Anthracene...

15 Benzo(g,h,i)perylene..

ลำดับ	สารเคมี	วิธีวิเคราะห์
15	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ³⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
16	Beryllium	Digestion, Inductively Coupled Plasma Method ²⁾
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ²⁾
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
20	Bromoform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method ¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹⁾ 3) Digestion, Inductively Coupled Plasma Method ¹⁾
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
27	Chlordane	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾

30 Chlorodibromomethane...

ลำดับ	สารเคมี	วิธีวิเคราะห์
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ¹⁾ 3) Digestion, Inductively Coupled Plasma Method ¹⁾
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ¹⁾ 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ¹⁾
35	Chromium (VI)	1) Colorimetric Method ¹⁾ 2) Extraction, Air-Acetylene Flame Method ¹⁾
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
37	Cyanide	Distillation, Colorimetric Method ¹⁾
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾

42 Dibenzofluanthracene...

ลำดับ	สารเคมี	วิธีวิเคราะห์
42	Dibenzofluanthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
54	1,2-Dichloropropene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
56	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾

58 Diethyl phthalate...

ลำดับ	สารเคมี	วิธีวิเคราะห์
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
65	Enquin	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
66	Ethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ¹⁾
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method ¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ¹⁾

70 Heptachlor epoxide...

ลำดับ	สารเคมี	วิธีการตรวจ
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁾
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
73	n-Hexene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁾
74	α-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁵⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁾
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁷⁾
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁸⁾
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁹⁾
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁾
79	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁰⁾
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁹⁾
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method ⁽¹¹⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽¹²⁾ 3) Digestion, Inductively Coupled Plasma Atomic Emission Spectrometric Method ⁽¹³⁾

82 Manganese...

ลำดับ	สารเคมี	วิธีการตรวจ
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ⁽¹⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽¹⁵⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽¹⁶⁾
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽¹⁷⁾
84	Methanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽¹⁸⁾
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽¹⁹⁾
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁰⁾
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²¹⁾
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²²⁾
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²³⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁴⁾
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽²⁵⁾
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽²⁶⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽²⁷⁾
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method ⁽²⁸⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽²⁹⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽³⁰⁾
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³¹⁾
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³²⁾
95	N-Nitrosodimethylpropylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³³⁾

96 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
96	Polychlorinated biphenyls - PCB 1016 - PCB 1221 - PCB 1232 - PCB 1242 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽³⁴⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁵⁾
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁶⁾
98	pH	Electrometric Method ⁽³⁷⁾
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽³⁸⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽³⁹⁾
100	Phenol	1) Distillation, Chloroform Extraction Method ⁽⁴⁰⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴¹⁾
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴²⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁴³⁾
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁵⁾
103	Silver	Digestion, Inductively Coupled Plasma Method ⁽⁴⁶⁾
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁷⁾
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁸⁾
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁴⁹⁾
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁵⁰⁾

108 Toxaphene...

ลำดับ	สารเคมี	วิธีการตรวจ
108	Toxaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁵¹⁾ 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁵²⁾
109	TPH (C ₉ - C ₁₀)	1) Purge and Trap, Gas Chromatographic Method ⁽⁵³⁾ 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽⁵⁴⁾
110	TPH (C ₁₁ - C ₁₂)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁵⁵⁾
111	TPH (C ₁₃ - C ₁₅)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁵⁶⁾
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁵⁷⁾
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁵⁸⁾
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁵⁹⁾
115	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁰⁾
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁶¹⁾
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽⁶²⁾
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶³⁾
119	Vanadium	Digestion, Inductively Coupled Plasma Method ⁽⁶⁴⁾
120	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁵⁾
121	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁶⁾
122	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁷⁾
123	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ⁽⁶⁸⁾

124 p-Xylene...

ลำดับ	สารเคมี	วิธีการตรวจ
124	p-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
125	Xylene (Total)	Purge and Trap Gas Chromatographic/Mass Spectrometric Method ²¹
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ²¹ 3) Digestion, Inductively Coupled Plasma Method ²¹

ตารางวิธีวิเคราะห์ (ต่อเนื่อง) จำนวน 25 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Antimony	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
2	Arsenic	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
3	Cadmium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
4	Carbon Monoxide	Instrumental Analyzer Method ²¹
5	Chlorine	Isokinetic Sampling, Ion Chromatographic Method ²¹
6	Chromium	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
7	Cobalt	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
8	Copper	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
9	Cresol	Absorption Sampling, Gas Chromatographic/Mass Spectrometric Method ²¹

10 Dioxins/Furans...

ลำดับ	สารเคมี	วิธีการตรวจ
10	Dioxins/Furans	Isokinetic Sampling ²¹
11	Hydrogen Chloride	Isokinetic Sampling, Ion Chromatographic Method ²¹
12	Hydrogen Fluoride	Isokinetic Sampling, Ion Chromatographic Method ²¹
13	Hydrogen Sulfide	Absorption Sampling, Iodometric Method ²¹
14	Lead	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
15	Manganese	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
16	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ²¹
17	Nickel	1) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
18	Opacity	Ringelmann's Method ²¹
19	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method ²¹ 2) Instrumental Analyzer Method ²¹
20	Selenium	1) Isokinetic Sampling, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ²¹ 2) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
21	Sulfur Dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method ²¹ 2) Instrumental Analyzer Method ²¹
22	Sulfuric Acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method ²¹
23	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ²¹
24	Vanadium	Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ²¹
25	Xylene	1) Gas Sampling, Gas Chromatographic/Mass Spectrometric Method ²¹ 2) Absorption Sampling, Gas Chromatographic/Mass Spectrometric Method ²¹

11 DDE...

ตารางวิธีวิเคราะห์ (ต่อเนื่อง) จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{21,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{21,23}
2	Antimony	Digestion, Inductively Coupled Plasma Method ^{21,24}
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{21,25} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,26} 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{21,27} 4) Digestion, Inductively Coupled Plasma Method ^{21,28}
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,29} 2) Digestion, Inductively Coupled Plasma Method ^{21,30}
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,31} 2) Digestion, Inductively Coupled Plasma Method ^{21,32}
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{21,33} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,34} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,35} 4) Digestion, Inductively Coupled Plasma Method ^{21,36}
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{21,37} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{21,38}
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{21,39} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,40}

3) Digestion...

ลำดับ	สารเคมี	วิธีการตรวจ
9	Chromium (III)	3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,41} 4) Digestion, Inductively Coupled Plasma Method ^{21,42} 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^{21,43}
10	Chromium (VI)	3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{21,44} 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{21,45}
11	Cinhalit	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,46}
12	Copper	2) Digestion, Inductively Coupled Plasma Method ^{21,47} 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{21,48} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{21,49} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{21,50} 4) Digestion, Inductively Coupled Plasma Method ^{21,51}
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{21,52} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{21,53}
14	DDD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{21,54} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{21,55}

15 DDE...

ลำดับ	สารเคมี	วิธีการตรวจ
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{7,9,23}
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
22	Mercury	1) Waste Extraction, Digestion, Cold Vapor Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23}

3) Digestion...

ลำดับ	สารเคมี	วิธีการตรวจ
23	Methoxychlor	3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{7,9,23} 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^{14,15}
24	Molybdenum	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
25	Nickel	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 2) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 3) Digestion, Inductively Coupled Plasma Method ^{7,9,23} 4) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15}
26	Polychlorinated Biphenyls - Aroclor 1016 - Aroclor 1221 - Aroclor 1232 - Aroclor 1242 - Aroclor 1248 - Aroclor 1254 - Aroclor 1260 - 2-Chlorobiphenyl - 2,3-Dichlorobiphenyl - 2,2',3-Trichlorobiphenyl - 2,4',5-Trichlorobiphenyl - 2,2',3,5-Tetrachlorobiphenyl - 2,2',5,5-Tetrachlorobiphenyl - 2,3',4,4'-Tetrachlorobiphenyl - 2,2',3,4,5-Pentachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21} 3) Digestion, Inductively Coupled Plasma Method ^{7,9,23} 4) Digestion, Inductively Coupled Plasma Method ^{7,9,23} 5) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 6) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}



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- 2,2,4,5,5 -

ลำดับ	สารเคมี	วิธีการตรวจ
	- 2,2',4,5,5'-Pentachlorobiphenyl - 2,3,3',4,6-Pentachlorobiphenyl - 2,2',3,4,4',5'-Hexachlorobiphenyl - 2,2',3,4,5,5'-Hexachlorobiphenyl - 2,2',3,5,5',6'-Hexachlorobiphenyl - 2,2',4,4',5,5'-Hexachlorobiphenyl - 2,2',3,3',4,4',5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5'-Heptachlorobiphenyl - 2,2',3,4,4',5,5',6'-Octachlorobiphenyl - 2,2',3,4,4',5,5',6'-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method ^{7,9,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{10,24} 3) Digestion, Inductively Coupled Plasma Method ^{7,9,23} 4) Digestion, Inductively Coupled Plasma Method ^{7,9,23}
27	pH	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23}
28	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23}

30 Silver...

ลำดับ	สารเคมี	วิธีการตรวจ
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 2) Digestion, Inductively Coupled Plasma Method ^{7,9,23}
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 2) Digestion, Inductively Coupled Plasma Method ^{7,9,23}
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{7,9,25} 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{7,9,25}
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 2) Digestion, Inductively Coupled Plasma Method ^{7,9,23}
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^{7,9,23} 3) Digestion, Flame Atomic Absorption Spectrometric Method ^{14,15} 4) Digestion, Inductively Coupled Plasma Method ^{7,9,23}

สารเคมี 125 ชนิด

ลำดับ	สารเคมี	วิธีการตรวจ
1	Acenaphthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{10,26} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{10,26}
2	Acetone	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^{7,9,22} 2) Ultrasonic Extraction, Gas Chromatographic Method ^{10,21}



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3 Aldrin...

ลำดับ	สารเคมี	วิธีการหา
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,22} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
4	Anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}
5	Antimony	Digestion, Inductively Coupled Plasma Method ^{7,12}
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^{7,18} 2) Digestion, Inductively Coupled Plasma Method ^{7,21}
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{13,25}
8	Barium	Digestion, Inductively Coupled Plasma Method ^{7,14}
9	Benz(a)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
11	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
12	Benzofluoranthrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}
13	Benzoic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
14	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}

15 Benzo(g,h)perylene...

ลำดับ	สารเคมี	วิธีการหา
15	Benzo(g,h)perylene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,23} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
16	Beryllium	Digestion, Inductively Coupled Plasma Method ^{7,14}
17	Bis(2-chloroethyl)ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
18	Bis(2-ethylhexyl)phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
20	Bromofom	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,25}
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
22	Butyl benzyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
23	Caesium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{7,14} 2) Digestion, Inductively Coupled Plasma Method ^{7,11}
24	Carbazole	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}
28	p-Chloroaniline	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}

31 Chloroform...

ลำดับ	สารเคมี	วิธีการหา
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^{7,14} 2) Digestion, Inductively Coupled Plasma Method ^{7,12}
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^{7,9,13,14} 2) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^{7,9,13,14}
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^{7,14}
36	Chrysene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}
37	Cyanide	Extraction, Distillation, Colorimetric Method ^{22,25,26}
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic Method ²⁷
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,22} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,22}
40	DDE	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,22} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,22}
41	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,22} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,22}
42	Dibenz(a,h)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method ^{16,24} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{16,24}

43 Di-n-butyl phthalate...

ลำดับ	สารเคมี	วิธีการหา
43	Di-n-butyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,22}
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
47	9,9'-Dichlorobenzidine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
56	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^{13,24}
57	Dieldrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^{19,22} 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,22}
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^{19,24}

60 2,4-Dinitrophenol...

ลำดับ	สารเคมี	วิธีการ
60	2,4-Dinitrophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
61	2,4-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
62	2,6-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
63	Di-n-Octyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
64	Endosulfan	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
65	Endrin	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
67	Fluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
68	Fluorene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
69	Heptachlor	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
70	Heptachlor epoxide	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)

71 Hexachlorobenzene...

ลำดับ	สารเคมี	วิธีการ
71	Hexachlorobenzene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
73	n-Hexane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
74	α-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
75	β-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
76	γ-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
77	Hexachlorocyclopentadiene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
78	Hexachloroethane	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
79	Indeno[1,2,3-c]pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
80	Isophorone	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
81	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(1,24) 2) Digestion, Inductively Coupled Plasma Method ^(1,24)
82	Manganese	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(1,24) 2) Digestion, Inductively Coupled Plasma Method ^(1,24)

83 Mercury...

ลำดับ	สารเคมี	วิธีการ
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1,24) 2) Digestion, Inductively Coupled Plasma Method ^(1,24) 3) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method ^(1,24)
84	Methanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
85	Methoxychlor	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
86	Methyl bromide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
87	Methylene chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
88	2-Methylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
89	2-Methylnaphthalene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
90	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
91	Naphthalene	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
92	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(1,24) 2) Digestion, Inductively Coupled Plasma Method ^(1,24)
93	Nitrobenzene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
94	N-Nitrosodiphenylamine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)
95	N-Nitrosodipropylamine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24)

96 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการ
96	Polychlorinated Biphenyls -Aroclor 1016 -Aroclor 1221 -Aroclor 1232 -Aroclor 1242 -Aroclor 1248 -Aroclor 1254 -Aroclor 1260 Polychlorinated Biphenyls -2-Chlorobiphenyl -2,3-Dichlorobiphenyl -2,2',5-Trichlorobiphenyl -2,2',5-Trichlorobiphenyl -2,2',3,5-Tetrachlorobiphenyl -2,2',5,5'-Tetrachlorobiphenyl -2,3',4,4'-Tetrachlorobiphenyl -2,2',3,4,5-Pentachlorobiphenyl -2,2',4,5,5'-Pentachlorobiphenyl -2,3',4,5,6-Pentachlorobiphenyl -2,2',3,4,4',5'-Hexachlorobiphenyl -2,2',3,4,5,5'-Hexachlorobiphenyl -2,2',3,5,5',6-Hexachlorobiphenyl -2,2',4,4',5,5'-Hexachlorobiphenyl -2,2',3,3',4,4',5-Heptachlorobiphenyl -2,2',3,4,4',5,5'-Heptachlorobiphenyl -2,2',3,4,4',5,6-Heptachlorobiphenyl	1) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24) 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ^(1,24) Ultrasonic Extraction, Gas Chromatographic Method ^(1,24)

- 2,2',3,4',5,5',6...

ลำดับ	สารเคมี	วิธีการทดสอบ
97	- 2,2',3,4',5,5',6-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl Pentachlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
98	Phenanthrene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁴⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁴⁾⁽²⁾⁽³⁾
99	Phenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
100	Pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁶⁾⁽²⁾⁽³⁾ 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹⁶⁾⁽²⁾⁽³⁾
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽¹²⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁴⁾⁽²⁾
102	Silver	Digestion, Inductively Coupled Plasma Method ⁽¹⁴⁾⁽²⁾
103	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
106	Toluene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
107	Toxaphene	Ultrasonic Extraction, Gas Chromatographic Method ⁽¹⁶⁾⁽²⁾⁽³⁾
108	TPH (C ₁₀ -C ₁₄)	1) Purge and Trap, Gas Chromatographic Method ⁽¹²⁾⁽²⁾⁽³⁾ 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
109	TPH (C ₁₀ -C ₁₄)	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
110	TPH (C ₁₀ -C ₁₄)	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾

112 1,1,1-Trichloroethane...

ลำดับ	สารเคมี	วิธีการทดสอบ
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
115	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
116	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
118	Vanadium	Digestion, Inductively Coupled Plasma Method ⁽¹⁴⁾⁽²⁾
119	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
120	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
121	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
122	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
123	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ⁽¹²⁾⁽²⁾⁽³⁾
125	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method ⁽¹⁴⁾⁽²⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽¹⁴⁾⁽²⁾

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