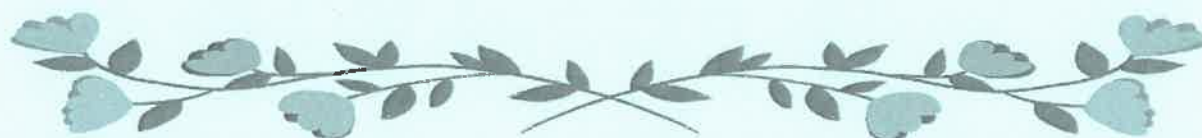


ภาคผนวก ฉ  
หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน





ลำดับ	สารเคมี	วิธีการตรวจ
38	Phenols	1) Distillation, Chloroform Extraction Method <sup>(2)</sup> 2) Distillation, Direct Photometric Method <sup>(4)</sup>
39	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>
40	Sulfide	1) Iodometric Method <sup>(2)</sup> 2) Methylene Blue Method <sup>(4)</sup>
41	Temperature	Laboratory and Field Methods <sup>(1)</sup>
42	Total Dissolved Solids	Dried at 180 °C <sup>(5)</sup>
43	Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method <sup>(1)</sup>
44	Total Suspended Solids	Dried from 103 to 105 °C <sup>(5)</sup>
45	Trivalent Chromium	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation <sup>(1)</sup> 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>(1)</sup>
46	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>(1)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(3)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>

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ลำดับ	สารเคมี	วิธีการตรวจ
1	Acenaphthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
2	Acetone	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
3	Aldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
4	Anthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>

3 Antimony...

ลำดับ	สารเคมี	วิธีการตรวจ
5	Antimony	Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>
6	Arsenic	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
8	Barium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>
9	Benzanthracene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
10	Benzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
11	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
12	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
14	Benzolapronic	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
15	Benzofluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
16	Beryllium	Digestion, Inductively Coupled Plasma Method <sup>(1)</sup>
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)</sup>

19 Bromodichloromethane...

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

34 Chromium (III)...

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

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

65 Endrin...

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

76 γ-HCH...

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

91 Naphthalene...

ลำดับ	สารเคมี	วิธีการตรวจ
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method <sup>21</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method <sup>21</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>21</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>21</sup>
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
95	N-Nitrosodipropylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
96	Polychlorinated Biphenyls - PCB 1016 - PCB 1221 - PCB 1252 - PCB 1262 - PCB 1248 - PCB 1254 - PCB 1260	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method <sup>21</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
98	pH	Electrometric Method <sup>21</sup>
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method <sup>21</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
100	Phenol	1) Distillation, Chloroform Extraction Method <sup>21</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic/ Method <sup>21</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>

ลำดับ	สารเคมี	วิธีการตรวจ
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>24</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>21</sup>
103	Silver	Digestion, Inductively Coupled Plasma Method <sup>21</sup>
104	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>11</sup>
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
106	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
107	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
108	Toxaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>11</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
109	TPH (C <sub>7</sub> - C <sub>9</sub> )	1) Purge and Trap, Gas Chromatographic Method <sup>11,12</sup> 2) Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>10,24</sup>
110	TPH (C <sub>10</sub> - C <sub>16</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,24</sup>
111	TPH (C <sub>17</sub> - C <sub>20</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,24</sup>
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
115	Toxichloromethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>

119 Vanadium...

ลำดับ	สารเคมี	วิธีการตรวจ
119	Vanadium	Digestion, Inductively Coupled Plasma Method <sup>21</sup>
120	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>24</sup>
121	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>10</sup>
122	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
123	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
124	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
125	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>21</sup>
126	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>21</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>21</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>21</sup>

ข้อมูลการวิเคราะห์ดิน (ตัว) จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีการตรวจ
1	Aldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>11,24</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>9,21</sup>
2	Antimony	Digestion, Inductively Coupled Plasma Method <sup>21,22</sup>
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>1,1,10</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>

5 Beryllium...

ลำดับ	สารเคมี	วิธีการตรวจ
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>
7	Chlordane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>
9	Chromium (III)	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation <sup>1,1,12,15</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation <sup>1,1,12,15</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>1,1,12,15</sup> 4) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>1,1,12,15</sup>
10	Chromium (VI)	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 2) Alkaline Digestion, Colorimetric Method; Calculation <sup>1,1,12,15</sup>
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>

ลำดับ	สารเคมี	วิธีการตรวจ
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1,1,12</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1,1,12</sup>
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
14	DDO	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
15	DOC	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
16	DDT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1,1,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1,1,21</sup>

20 Lead...

ลำดับ	สารเคมี	วิธีการตรวจ
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.112)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.113)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1.124)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1.125)</sup>
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(1.121)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(1.121)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method <sup>(1.121)</sup>
23	Methoxychlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1.120)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1.125)</sup>
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.112)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.112)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.112)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>

26 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
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',3,4,5,5'-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 - 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 <sup>(1.122)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1.125)</sup>

27 Pentachlorophenol...

ลำดับ	สารเคมี	วิธีการตรวจ
27	Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1.124)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1.125)</sup> Electrometric Method <sup>(1.123)</sup>
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1.119)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1.119)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>
30	Silver	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>
31	Thallium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>
32	Toxaphene	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1.123)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1.125)</sup>
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1.123)</sup> 2) Waste Extraction, Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method <sup>(1.123)</sup> 3) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1.123)</sup> 4) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method <sup>(1.123)</sup>
34	Vanadium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>

35 Zinc...

ลำดับ	สารเคมี	วิธีการตรวจ
35	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.112)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1.112)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>(1.113)</sup>

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ข้อมูลทางวิทยาศาสตร์และพิษวิทยาเกี่ยวกับผลิตภัณฑ์เคมีและสารเคมีอันตรายอื่น ๆ ที่พบในผลิตภัณฑ์...

ที่ ๒๓ ๐๓๐๙/๑ ๑ ๒ ๑ ๑ ๑



กรมโรงงานอุตสาหกรรม  
กระทรวงมหาดไทย  
เขตราชบุรี กรุงเทพฯ ๑๐๑๐๐

๑๓ กรกฎาคม ๒๕๖๒

เรื่อง เปลี่ยนแปลงสาระของข้อปฏิบัติการวิเคราะห์

เรียน กรรมการผู้ตรวจการ บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุใบรับรองผลการตรวจ และขอเปลี่ยนรายละเอียดของข้อปฏิบัติการวิเคราะห์ของภาคผนวก  
ครั้งที่ ๗ ภาคผนวก ๒๕๖๒

ตามข้อเท็จจริงข้างต้น บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด ขอเปลี่ยนรายละเอียดของข้อปฏิบัติการวิเคราะห์ของภาคผนวก  
ครั้งที่ ๗ ภาคผนวก ๒๕๖๒

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เป็นไปตามที่ขอปฏิบัติการวิเคราะห์  
จำนวน ๖ ราย ได้แก่

๑) นางสาวพรพิมล ประภาพานธุ์	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๕๖
๒) นายวิวัฒน์ บุญฤทธิ์	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๕๗
๓) นางสาวอริยา แก้วภาพ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๕๘
๔) นายนิพนธ์ สุทธิ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๕๙
๕) นายสิทธิพร หรือยศชัยบุญ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๐
๖) นางสาวนันทพร การงานดี	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๑

อนึ่ง หนังสือขอขึ้นทะเบียน/ต่ออายุใบรับรองผลการตรวจของบริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด  
เมื่อวันที่ ๒ กุมภาพันธ์ ๒๕๖๒ ทั้งนี้ สามารถยื่นคำขอต่อกรมโรงงานอุตสาหกรรมได้ทันที

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

ผู้ตรวจการฝ่ายปฏิบัติการวิเคราะห์

บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด

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ที่ ๒๓ ๐๓๐๙/๑ ๑ ๒ ๑ ๑ ๑



กรมโรงงานอุตสาหกรรม  
กระทรวงมหาดไทย  
เขตราชบุรี กรุงเทพฯ ๑๐๑๐๐

๒๕ พฤษภาคม ๒๕๖๒

เรื่อง เปลี่ยนแปลงสาระของข้อปฏิบัติการวิเคราะห์

เรียน กรรมการผู้ตรวจการ บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุใบรับรองผลการตรวจ และขอเปลี่ยนรายละเอียดของข้อปฏิบัติการวิเคราะห์ของภาคผนวก  
ครั้งที่ ๗ ภาคผนวก ๒๕๖๒

ตามข้อเท็จจริงข้างต้น บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด ขอเปลี่ยนรายละเอียดของข้อปฏิบัติการวิเคราะห์ของภาคผนวก  
ครั้งที่ ๗ ภาคผนวก ๒๕๖๒

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้เป็นไปตามที่ขอปฏิบัติการวิเคราะห์  
จำนวน ๕ ราย

๑) นางสาวสุภาวดี เจริญใจวัฒนา	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๒
๒) นายสุภาวดี เจริญใจวัฒนา	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๓
๓) นางสาวอริยา แก้วภาพ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๔
๔) นางสาวอริยา แก้วภาพ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๕
๕) นางสาวอริยา แก้วภาพ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๖
๖) นางสาวอริยา แก้วภาพ	ทะเบียนเลขที่ ๖-๑๕๕-๑-๐๑๖๗

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จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

ผู้ตรวจการฝ่ายปฏิบัติการวิเคราะห์

บริษัท ปูนซีเมนต์ ไทยแลนด์ แอนด์ เอชซีเอ็ม จำกัด

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โทรสาร ๐ ๒๕๖๐ ๒๕๖๒ ต่อ ๒๕๖๐๕

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ที่ ๑๓ ๐๓๐๐/๒ ๖ ๐ ๒ ๔



กรมโรงงานอุตสาหกรรม  
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท  
เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐

๒ ๒ มีนาคม ๒๕๖๖

เรื่อง เปลี่ยนแปลงบุคลากรและสารเคมีที่วิเคราะห์

เรียน กรมการปฏิบัติการ บริษัท ปูนซิเมนต์ แอนดร์ เอ็นจิเนียริ่ง คอนสตรัคชั่น จำกัด

อ้างถึง สำเนาหนังสือพร้อมเอกสารเปลี่ยนแปลงบุคลากร และสารเคมีของปฏิจำกัดวิเคราะหะ  
ลงวันที่ ๑๐ มกราคม ๒๕๖๖

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือเปลี่ยนแปลงบุคลากรและสารเคมีที่วิเคราะห์

บริษัท ปูนซิเมนต์ แอนดร์ เอ็นจิเนียริ่ง คอนสตรัคชั่น จำกัด จำนวน ๒ คน

พยานหลักฐานที่อ้างถึง บริษัท ปูนซิเมนต์ แอนดร์ เอ็นจิเนียริ่ง คอนสตรัคชั่น จำกัด  
ปฏิจำกัดวิเคราะหะที่เลขที่ ๖-๑๔๔ ลงวันที่ ๑๕ กรกฎาคม ๒๕๖๕ เลขที่ ๓ จออยู่เลขที่ ๔๓ ถนนสุขุมวิท  
แขวงนางจาง เขตพระโขนง กรุงเทพมหานคร ขอเปลี่ยนแปลงบุคลากรและสารเคมีที่วิเคราะห์  
ความละเอียดดังนี้

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว มีความเห็นดังนี้

๑. ให้ยกเลิกจ้างที่ปรึกษาการปฏิบัติการวิเคราะห์ จำนวน ๒ ราย

๑) นายจรูญ สุวรรณราช

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๖๖

๒) นายพิทักษ์ ตันอนุกุล

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๒. ให้เพิ่มจ้างที่ปรึกษาการปฏิบัติการวิเคราะห์ จำนวน ๑๑ ราย

๑) นางสาวอรุณา ประทุมศรี

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๖๖

๒) นายพชรกิต วัฒนโยน

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๓) นายสุภากร สอนศรี

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๔

๔) นายศุภณัฐ วัฒนศิริ

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๔

๕) นายชัชชัย หุมไธ

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๖๖

๖) นายบวรชัย กลิ่นวิภา

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๗) นายจิรวัฒน์ ธรรมสุวรรณ์

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๘) นายวิฑูรย์ วัฒนศิริ

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๙) นางสาวอรุณภา วัฒนศิริ

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๑๐) นางสาวพรวิภา ขจรเมธีกุล

ทะเบียนเลขที่ ๖-๑๔๔-๖-๐๑๕๓

๓. ให้เพิ่มจ้างที่ปรึกษาการปฏิบัติการวิเคราะห์ จำนวน ๑ ราย



๒๕๖๖

๐๒๔

เอกสารแนบท้ายหนังสือเปลี่ยนแปลงบุคลากรและสารเคมีที่วิเคราะห์

บริษัท ปูนซิเมนต์ แอนดร์ เอ็นจิเนียริ่ง คอนสตรัคชั่น จำกัด เลขที่ ๓ จออยู่เลขที่ ๔๓ ถนนสุขุมวิท

ที่ ๑๓ ๐๓๐๐/๒ ๖ ๐ ๒ ๔

ลงวันที่ ๒ ๒ มีนาคม ๒๕๖๖

ขอเพิ่มสารเคมีที่วิเคราะห์ขึ้นจากกรมโรงงานอุตสาหกรรม จำนวน ๑๖ รายการ

อัน จำนวน ๑๖ รายการ

ลำดับที่	สารเคมี	วิธีการวิเคราะห์
1	Benzene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
2	Carbon tetrachloride	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
3	1,2-Dichloroethane	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
4	1,1-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
5	cis-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
6	trans-1,2-Dichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
7	Ethylbenzene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
8	Methylene chloride	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
9	Styrene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
10	Tetrachloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
11	Toluene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
12	Trichloroethylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
13	m-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
14	o-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
15	p-Xylene	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)
16	Xylene (Total)	Equilibrium Headspace, Gas Chromatographic/ Mass Spectrometric Method (1.1)

เอกสารอ้างอิง.

อนึ่ง หนังสือฉบับนี้ขอสงวนสิทธิ์เฉพาะกรณีที่ต้องใช้เพื่อใช้ในการปฏิบัติงานวิเคราะห์เท่านั้น  
ที่ ๑๓ ๐๓๐๐/๒ ๖ ๐ ๒ ๔ ลงวันที่ ๒ กุมภาพันธ์ ๒๕๖๖ ที่ ๒ กุมภาพันธ์ ๒๕๖๖ ทั้งนี้ สามารถเข้าถึงข้อมูล  
ผ่านระบบอิเล็กทรอนิกส์ได้ที่เว็บไซต์กรมโรงงานอุตสาหกรรม ตาม QR Code ที่แนบมาด้วยฉบับนี้

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

๒๕๖๖

(นายประจักษ์ คำวงศ์)  
ผู้อำนวยการกองบริหารโรงงานและอุตสาหกรรม  
ปฏิจำกัดวิเคราะหะที่เลขที่ ๔๓ ถนนสุขุมวิท



โปรดใช้ผ่านระบบอิเล็กทรอนิกส์

กองวิจัยและพัฒนาสิ่งแวดล้อมโรงงาน

กรุงเทพมหานคร ๖๑๐๐๐๐ โทร. ๐ ๒๕๖๐ ๖๑๐๐๐ ต่อ ๒๕๐๐-๕ โทรสาร ๐ ๒๕๖๐ ๖๑๐๐๐ ต่อ ๒๕๐๐-๕

ไปรษณีย์อิเล็กทรอนิกส์: samabong@prae.go.th



๒๕๖๖



“อุตสาหกรรมก้าวหน้า วิถีใหม่ ประสิทธิภาพสูง”



เอกสารอ้างอิง

1. 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 5021A, 2014.
2. United States Environmental Protection Agency. Test Methods for Evaluation Solid Waste Physical/Chemical Methods. Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry. SW-846 Method 8260D, 2018.



๒๕๖๖

กรมโรงงานอุตสาหกรรม กรุงเทพมหานคร ถนนพระรามที่ ๖ แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ ๑๐๕๐๐ โทร. ๐ ๒๕๖๐ ๖๑๐๐๐ ต่อ ๒๕๐๐-๕









16 o,p'-DDT.

36 Cal. 5. Grease

4 Anthracene.15 Benzolig.hyperfena...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
15	Benzelgh/ibipylene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>13</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
16	Beryllium	Digestion, Inductively Coupled Plasma Method <sup>42</sup>
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>26</sup>
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>49</sup>
20	Bromofom	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
21	Butanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>15</sup>
23	Cadmium	1) Digestion, Direct Air-Acetylene Flame Method <sup>21</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>41</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>41</sup>
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
25	Carbon disulfide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
27	Chloroform	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
28	p-Chloronitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
29	Chlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>

30 Chlorodibromomethane...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
31	Chloroform	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
32	2-Chlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
33	Chromium	1) Digestion, Direct Air-Acetylene Flame Method <sup>21</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>41</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>41</sup>
34	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation <sup>41</sup> 2) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>41</sup>
35	Chromium (VI)	1) Colorimetric Method <sup>41</sup> 2) Extraction, Air-Acetylene Flame Method <sup>41</sup>
36	Chrysene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup> Distillation, Colorimetric Method <sup>41</sup>
37	Cyanide	Distillation, Colorimetric Method <sup>41</sup>
38	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup>
39	DDD	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
40	DDE	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
41	DDT	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>

47 Dibenzylphthalacene...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
42	Dibenzylphthalacene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
43	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
44	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
45	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
46	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
47	3,3'-Dichlorobenzidine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
48	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
49	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
50	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
51	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
52	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
53	2,4-Dichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
54	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
55	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
56	1,2-Dichloropropene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
57	Dieldrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>

58 Diethyl phthalate...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
58	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
59	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
60	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
61	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
62	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
63	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
64	Endosulfan	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
65	Endrin	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
66	Ethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>41</sup>
67	Fluoranthene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
68	Fluorene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>
69	Heptachlor	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>41</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>11</sup>

70 Heptachlor epoxide...

ลำดับ	สารเคมี	วิธีการตรวจ
70	Heptachlor epoxide	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(1)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(2)</sup>
71	Hexachlorobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(2)</sup>
72	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(3)</sup>
73	n-Hexane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
74	α-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
75	β-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
76	γ-HCH	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
77	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
78	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
79	Indene(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
80	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
81	Lead	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma

82 Manganese...

ลำดับ	สารเคมี	วิธีการตรวจ
82	Manganese	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
83	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(4)</sup>
84	Methanol	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
85	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
86	Methyl bromide	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
87	Methylene chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
88	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
89	2-Methylnaphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
90	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
91	Naphthalene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
92	Nickel	1) Digestion, Direct Air-Acetylene Flame Method <sup>(4)</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>(4)</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
93	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
94	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
95	N-Nitrosodimethylamine	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

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 <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
97	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
98	pH	Electrometric Method <sup>(4)</sup>
99	Phenanthrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
100	Phenol	1) Distillation, Chloroform Extraction Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
101	Pyrene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
102	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(4)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
103	Silver	Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
104	Styrene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
105	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
106	Toxichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
107	Toluene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

108 Toxaphene...

ลำดับ	สารเคมี	วิธีการตรวจ
108	Toxaphene	1) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
109	TPH (C <sub>1</sub> - C <sub>6</sub> )	1) Purge and Trap, Gas Chromatographic Method <sup>(4)</sup> 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
110	TPH (C <sub>7</sub> - C <sub>10</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
111	TPH (C <sub>11</sub> - C <sub>15</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>(4)</sup>
112	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
113	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
114	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
115	Trichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
116	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
117	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
118	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
119	Vanadium	Digestion, Inductively Coupled Plasma Method <sup>(4)</sup>
120	Vinyl acetate	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
121	Vinyl chloride	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
122	m-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>
123	o-Xylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>(4)</sup>

124 p-Xylene...

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

ข้อมูลวิธี (ไม่ลงรายละเอียด) จำนวน 26 รายการ

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

10 Dioxin/Furans

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

สิ่งแวดล้อม...

ข้อมูลวิธี (ไม่ลงรายละเอียด) จำนวน 35 รายการ

ลำดับ	สารเคมี	วิธีตรวจ
1	Acidin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1)</sup>
2	Antimony	Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>1)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>1)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
4	Barium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
5	Beryllium	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
7	Chloride	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1)</sup>
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup>

3) Digestion...

ลำดับ	สารเคมี	วิธีตรวจ
9	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 3) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method, Waste Extraction, Colorimetric Method, Calculation <sup>1)</sup> 4) Waste Extraction, Digestion, Inductively Coupled Plasma Method, Waste Extraction, Colorimetric Method, Calculation <sup>1)</sup> 5) Digestion, Flame Atomic Absorption Spectrometric Method, Alkaline Digestion, Colorimetric Method, Calculation <sup>1)</sup> 6) Digestion, Inductively Coupled Plasma Method, Alkaline Digestion, Colorimetric Method, Calculation <sup>1)</sup>
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method <sup>1)</sup> 2) Alkaline Digestion, Colorimetric Method <sup>1)</sup>
11	Cobalt	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>1)</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>1)</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>1)</sup>
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1)</sup>
14	DOD	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>1)</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>1)</sup>

13 DOE.

ลำดับ	สารเคมี	วิธีวิเคราะห์
15	DDE	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
16	DOT	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
17	Dieldrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
18	Endrin	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
19	Heptachlor	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>2,7,14</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>7,14</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup>
21	Lindane	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>2,7,14</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup>

3) Digestion...

ลำดับ	สารเคมี	วิธีวิเคราะห์
23	Methoxychlor	3) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>2,7,14</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup> 5) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method <sup>14</sup> 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>
24	Molybdenum	1) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup>
25	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>7,14</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup> 3) Digestion, Flame Atomic Absorption Spectrometric Method <sup>7,14</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup>
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 - 2,2',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 <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup>

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2,2',4,5,5'...

ลำดับ	สารเคมี	วิธีวิเคราะห์
	2,2',4,5,5'-Pentachlorobiphenyl - 2,2',3,4,5'-Pentachlorobiphenyl - 2,2',3,4,5'-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'-Heptachlorobiphenyl - 2,2',3,3',4,4',5,5',6'-Monachlorobiphenyl - Pentachlorophenol	3) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>2,7,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10,22</sup> Electrometric Method <sup>2,7,22</sup>
28	pH	
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>7,8,29</sup> 2) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup> 3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>7,8,29</sup> 4) Digestion, Inductively Coupled Plasma Method <sup>2,7,14</sup>

3) Silver...

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

เพิ่ม จำนวน 125.1786.15

ลำดับ	สารเคมี	วิธีวิเคราะห์
1	Acenaphthene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>10,22</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>10,22</sup>
2	Acetone	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>7,22,23</sup>

3) Aldrin...



ลำดับ	สารเคมี	วิธีการตรวจ
3	Aldrin	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
4	Anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
5	Atrichem	Digestion, Inductively Coupled Plasma Method <sup>(1)(2)(3)</sup>
6	Asenil	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>(1)(2)(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(4)(5)</sup>
7	Atrazine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
8	Barium	Digestion, Inductively Coupled Plasma Method <sup>(1)(2)(3)</sup>
9	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
10	Benzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
11	Benzobiphenylene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
12	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
13	Benzic acid	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
14	Benzodipylene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>

15 Benzofluoranthene...

ลำดับ	สารเคมี	วิธีการตรวจ
15	Benzofluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
16	Beryllium	Digestion, Inductively Coupled Plasma Method <sup>(1)(2)(3)</sup>
17	Bis(2-chloroethoxy)ether	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
18	Bis(2-ethylhexyl)phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
19	Bromochloromethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
20	Bromoforn	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
21	Butanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
22	Buyl benzyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
23	Caesium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(2)(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(4)(5)</sup>
24	Carbazole	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
27	Chlordane	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
28	p-Chloroniline	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
30	Chlorobromomethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>

31 Chloroform

ลำดับ	สารเคมี	วิธีการตรวจ
31	Chloroform	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
32	2-Chlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
33	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(2)(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(4)(5)</sup>
34	Chromium (III)	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(1)(2)(3)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(1)(4)(5)</sup>
35	Chromium (VI)	Alkaline Digestion, Colorimetric Method <sup>(1)(2)(3)</sup>
36	Chrysene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
37	Cyanide	Extraction, Distillation, Colorimetric Method <sup>(1)(2)(3)</sup>
38	2,4-D	Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup>
39	DDD	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
40	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
41	DDT	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
42	Dibenz(a,h)anthracene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>

43 Di-n-butyl phthalate...

ลำดับ	สารเคมี	วิธีการตรวจ
43	Di-n-butyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
44	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
45	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
46	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
47	3,3'-Dichlorobenzidine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
48	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
49	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
50	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
51	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
52	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
53	2,4-Dichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
54	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
55	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
56	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
57	Dieldrin	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(1)(2)(3)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(4)(5)</sup>
58	Diethyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>
59	2,4-Dimethylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(1)(2)(3)</sup>

60 2,4-Dichlorophenol...

ลำดับ	สารเคมี	วิธีการตรวจ
60	2,4-Dinitrophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
61	2,4-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
62	2,6-Dinitrotoluene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
63	Di-n-Octyl phthalate	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
64	Endosulfan	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
65	Endrin	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
66	Ethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
67	Fluoranthene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
68	Fluorene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
69	Heptachlor	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
70	Heptachlor epoxide	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>

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71 Hexachlorobenzene...

ลำดับ	สารเคมี	วิธีการตรวจ
71	Hexachlorobenzene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
72	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
73	n-Hexane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
74	α-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
75	β-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
76	γ-HCH	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
77	Hexachlorocyclopentadiene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
78	Hexachloroethane	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
79	Indeno[1,2,3-cd]pyrene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
80	Isophorone	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
81	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(10,20)</sup> 2) Digestion, Inductively Coupled Plasma Atomic Absorption Spectrometric Method <sup>(10,20)</sup>
82	Manganese	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(10,20)</sup> 2) Digestion, Inductively Coupled Plasma Atomic Absorption Spectrometric Method <sup>(10,20)</sup>

83 Mercury...

ลำดับ	สารเคมี	วิธีการตรวจ
83	Mercury	1) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>(10,20)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(10,20)</sup> 3) Thermal Decomposition, Aqueous Phase Extraction and Atomic Absorption Spectrometric Method <sup>(10,20)</sup>
84	Methanol	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
85	Methoxychlor	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
86	Methyl bromide	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
87	Methylene chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
88	2-Methylphenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
89	2-Methylnaphthalene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
90	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
91	Naphthalene	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
92	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>(10,20)</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>(10,20)</sup>
93	Nitrobenzene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
94	N-Nitrosodiphenylamine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
95	N-Nitrosodi-n-propylamine	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>

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96 Polychlorinated Biphenyls...

ลำดับ	สารเคมี	วิธีการตรวจ
96	Polychlorinated Biphenyls	1) Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>(10,20)</sup>
	- Aroclor 1016	
	- Aroclor 1221	
	- Aroclor 1232	
	- Aroclor 1242	
	- Aroclor 1248	
	- Aroclor 1254	
	- Aroclor 1260	
	Polychlorinated Biphenyls	Ultrasonic Extraction, Gas Chromatographic Method <sup>(10,20)</sup>
	- 2-Chlorobiphenyl	
	- 2,3-Dichlorobiphenyl	
	- 2,2',5-Trichlorobiphenyl	
	- 2,6',5-Trichlorobiphenyl	
	- 2,2',3,5'-Tetrachlorobiphenyl	
	- 2,3',4,4'-Tetrachlorobiphenyl	
	- 2,2',3,4,5'-Pentachlorobiphenyl	
	- 2,2',4,5,5'-Pentachlorobiphenyl	
	- 2,3',4,6'-Pentachlorobiphenyl	
	- 2,2',3,4,6'-Pentachlorobiphenyl	
	- 2,2',3,4,5,5'-Hexachlorobiphenyl	
	- 2,2',3,4,5,5'-Hexachlorobiphenyl	
	- 2,2',3,4,5,5'-Hexachlorobiphenyl	
	- 2,2',3,3',4,4',5'-Heptachlorobiphenyl	
	- 2,2',3,4,4',5,5'-Heptachlorobiphenyl	
	- 2,2',3,4,4',5,5'-Heptachlorobiphenyl	

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

ลำดับ	สารเคมี	วิธีการวิเคราะห์
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 <sup>12,21</sup>
98	Phenanthrene	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
99	Phenyl	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
100	Pyrene	1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup> 2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
101	Selenium	1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>12,21</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>12,21</sup>
102	Silver	Digestion, Inductively Coupled Plasma Method <sup>12,21</sup>
103	Styrene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
104	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
105	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
106	Toluene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
107	Torophene	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
108	TPH (C <sub>10</sub> -C <sub>14</sub> )	1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup> 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
109	TPH (C <sub>10</sub> -C <sub>14</sub> )	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
110	TPH (C <sub>10</sub> -C <sub>14</sub> )	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
111	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>

112 1,1,1-Trichloroethane...

ลำดับ	สารเคมี	วิธีการวิเคราะห์
112	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
113	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
114	Trichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
115	2,4,5-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
116	2,4,6-Trichlorophenol	Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
117	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
118	Vanadium	Digestion, Inductively Coupled Plasma Method <sup>12,21</sup>
119	Vinyl acetate	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
120	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
121	m-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
122	o-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
123	p-Xylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
124	Xylene (Total)	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>12,21</sup>
125	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>12,21</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>12,21</sup>

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