

**เอกสารแนบ 13**  
**เอกสารอนุญาตห้องปฏิบัติการ**





ที่ อก ๐๓๑๐(๑)/ ๕๘๗๖

กรมโรงงานอุตสาหกรรม  
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท  
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒๒ มิถุนายน ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน  
ลงวันที่ ๓ มีนาคม ๒๕๖๖

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน  
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด จำนวน ๒๕ แผ่น

ตามหนังสือที่อ้างถึง บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียน  
ห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๒๓๖ สถานที่ตั้งเลขที่ ๑/๖ ซอยรามคำแหง ๑๔๕ แขวงสะพานสูง  
เขตสะพานสูง กรุงเทพมหานคร ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด ต่ออายุหนังสือรับขึ้น  
ทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์

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ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์

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ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะหมดอายุในวันที่ ๑๓ มีนาคม ๒๕๖๙ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรม ภายใน ๓๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ทั้งนี้ สามารถยื่นคำขอผ่านระบบอิเล็กทรอนิกส์ได้ที่หน้าเว็บไซต์กรมโรงงานอุตสาหกรรม

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน  
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน

กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ

โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕

โทรสาร ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๙๙

ไปรษณีย์อิเล็กทรอนิกส์ saraban@diw.mail.go.th





เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

เลขทะเบียน ว-๒๓๖

ที่ อก ๐๓๑๐(๑)/ ๙๘๗๖

ลงวันที่ ๒๒ มิถุนายน ๒๕๖๖

ขอขยายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๓๗ รายการ

น้ำเสีย จำนวน 40 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
2	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[4]</sup>
3	Barium	1) Digestion, Direct Nitrous Oxide-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>
4	α-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
5	γ-BHC	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
6	Biochemical Oxygen Demand	5-Day BOD Test, Azide Modification Method <sup>[4]</sup>
7	Cadmium	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>
8	Chemical Oxygen Demand	Closed Reflux, Titrimetric Method <sup>[4]</sup>
9	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
10	Chromium	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>
11	Color	ADMI Weighted-Ordinate Spectrophotometric Method <sup>[4]</sup>
12	Copper	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>
13	Cyanide	Distillation, Colorimetric Method <sup>[4]</sup>
14	4,4'-DDE	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
15	4,4'-DDT	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
16	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
17	Endosulfan I	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
18	Endosulfan II	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
19	Endosulfan Sulfate	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
20	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
21	Formaldehyde	Distillation, Colorimetric Method <sup>[3]</sup>
22	Free Chlorine	DPD Ferrous Titrimetric Method <sup>[4]</sup>
23	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
24	Heptachlor Epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
25	Hexavalent Chromium	Colorimetric Method <sup>[4]</sup>
26	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 Method <sup>[4]</sup>
27	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>
28	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>[4]</sup>
29	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>
30	Oil & Grease	1) Liquid-Liquid, Partition-Gravimetric Method <sup>[4]</sup> 2) Soxhlet Extraction Method <sup>[4]</sup>
31	pH	Electrometric Method <sup>[4]</sup>
32	Phenols	Distillation, Direct Photometric Method <sup>[4]</sup>
33	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[4]</sup>
34	Sulfide	1) Iodometric Method <sup>[4]</sup> 2) Methylene Blue Method <sup>[4]</sup>
35	Temperature	Laboratory and Field Methods <sup>[4]</sup>
36	Total Dissolved Solids	Dried at 180 °C <sup>[4]</sup>
37	Total Kjeldahl Nitrogen	Macro-Kjeldahl Method <sup>[4]</sup>
38	Total Suspended Solids	Dried at 103-105 °C <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
39	Trivalent Chromium	Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>[4]</sup>
40	Zinc	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>

น้ำใต้ดิน จำนวน 122 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
2	Acetone	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
5	Antimony	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>
6	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[4]</sup>
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
8	Barium	1) Digestion, Direct Nitrous Oxide-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>
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
10	Benzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
16	Beryllium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
20	Bromoform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
21	Butanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
23	Cadmium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
25	Carbon disulfide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
29	Chlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
31	Chloroform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
32	Chromium	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>
33	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation <sup>[4]</sup> 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation <sup>[4]</sup> 3) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation <sup>[4]</sup>
34	Chromium (VI)	Colorimetric Method <sup>[4]</sup>
35	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
36	Cyanide	Distillation, Colorimetric Method <sup>[4]</sup>
37	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
38	DDD	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
39	DDE	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
40	DDT	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
41	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
42	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
43	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
44	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
45	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
46	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
47	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
48	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>
49	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/Mass Spectrometric Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
50	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
51	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
52	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
53	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
54	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
55	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
56	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
57	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
58	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
59	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
60	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
61	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
62	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
63	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
64	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
65	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
66	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
67	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
68	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
69	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
70	$\alpha$ -HCH	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
71	$\beta$ -HCH	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
72	$\gamma$ -HCH	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
73	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
74	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
75	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
76	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
77	Lead	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>
78	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>
79	Mercury	Digestion, Cold Vapor Atomic Absorption Spectrometric Method <sup>[4]</sup>
80	Methanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
81	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
82	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
83	Methylene chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
84	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
85	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
86	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
87	Naphthalene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
88	Nickel	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>
89	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
90	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
91	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
92	Polychlorinated Biphenyls PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
93	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
94	pH	Electrometric Method <sup>[4]</sup>
95	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
96	Phenol	1) Distillation, Direct Photometric Method <sup>[4]</sup> 2) Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
97	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
98	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[4]</sup>
99	Silver	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>
100	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
101	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
102	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
103	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
104	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
105	TPH (C <sub>5</sub> -C <sub>8</sub> )	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[12,22]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
106	TPH (C <sub>&gt;8</sub> -C <sub>16</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[9,22]</sup>
107	TPH (C <sub>&gt;16</sub> -C <sub>35</sub> )	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[9,22]</sup>
108	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
109	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
110	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
111	Trichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
112	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
113	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[4]</sup>
114	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
115	Vanadium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>
116	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
117	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
118	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
119	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
120	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
121	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method <sup>[4]</sup>
122	Zinc	1) Digestion, Direct Air-Acetylene Flame Method <sup>[4]</sup> 2) Digestion, Inductively Coupled Plasma Method <sup>[4]</sup>



อากาศเสีย (ปล่อยระบาย) จำนวน 18 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup> 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>[5]</sup> 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[5]</sup>
2	Arsenic	Isokinetic Sampling, Digestion, Hydride Generation/ Atomic Absorption Spectrometric Method <sup>[5]</sup>
3	Carbon monoxide	Instrumental Analyzer Method <sup>[5]</sup>
4	Chlorine	Absorption Sampling, Ion Chromatographic Method <sup>[5]</sup>
5	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup> 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>[5]</sup>
6	Cresol	Absorption Sampling, Gas Chromatographic Method <sup>[5]</sup>
7	Dioxins/Furans	Isokinetic Sampling, Analysis by ISO/IEC 17025 Accredited Laboratory or Analysis by Department of Industrial Works Registered Laboratory (Dioxins/Furans Analysis Approved) <sup>[5]</sup>
8	Hydrogen Chloride	Absorption Sampling, Ion Chromatographic Method <sup>[5]</sup>
9	Hydrogen Fluoride	Absorption Sampling, Ion Chromatographic Method <sup>[5]</sup>
10	Hydrogen Sulfide	Absorption Sampling, Iodometric Method <sup>[5]</sup>
11	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method <sup>[5]</sup> 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method <sup>[5]</sup> 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[5]</sup>
12	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>[5]</sup>
13	Opacity	Ringelmann's Method <sup>[2]</sup>
14	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method <sup>[5]</sup> 2) Instrumental Analyzer Method <sup>[5]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	Sulfur dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method <sup>[5]</sup> 2) Instrumental Analyzer Method <sup>[5]</sup>
16	Sulfuric acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method <sup>[5]</sup>
17	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method <sup>[5]</sup>
18	Xylene	Adsorption Sampling, Gas Chromatographic Method <sup>[5]</sup>

สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 36 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
2	Antimony	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[1,6,17]</sup> 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,17]</sup>
4	Barium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
7	Chlordane	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
9	Chromium (III)	3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation <sup>[1,6,15,18]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation <sup>[1,6,16,18]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation <sup>[1,6,14,18]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,15,18]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,16,18]</sup> 6) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,14,18]</sup>
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method <sup>[1,18]</sup> 2) Alkaline Digestion, Colorimetric Method <sup>[8,18]</sup>
11	Cobalt	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,9,24]</sup> 2) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
14	DDD	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
15	DDE	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
16	DDT	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
17	Dieldrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
18	Endrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
19	Heptachlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
21	Lindane	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>[1,6,19]</sup> 2) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>[20]</sup>
23	Methoxychlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup>

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ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
24	Mirex	3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup> 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,9,24]</sup> 2) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
25	Molybdenum	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
26	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
27	Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 2,4,4'-Trichlorobiphenyl 2,2',5,5'-Tetrachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,9,25]</sup> 2) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,25]</sup> 3) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,25]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
28	2,2',4,5,5'-Pentachlorobiphenyl 2,2',3,4,4',5'-Hexachlorobiphenyl 2,2',4,4',5,5'-Hexachlorobiphenyl 2,2',3,4,4',5,5'-Heptachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method <sup>[1,9,24]</sup> 2) Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[1,6,21]</sup> 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,21]</sup>
30	Silver	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
31	Thallium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
32	Toxaphene	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method <sup>[1,10,24]</sup> 2) Solid-Phase Extraction, Gas Chromatographic Method <sup>[10,24]</sup> 3) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[11,27]</sup>
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[1,12,26]</sup> 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
34	Vanadium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
35	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
36	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method <sup>[1,6,15]</sup> 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[1,6,16]</sup> 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method <sup>[1,6,14]</sup> 4) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 6) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>

วิภา



ดิน จำนวน 121 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
2	Acetone	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
3	Aldrin	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
4	Anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
5	Antimony	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
6	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,17]</sup>
7	Atrazine	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
8	Barium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
9	Benz(a)anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
11	Benzo(b)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
12	Benzo(k)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
13	Benzoic acid	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
14	Benzo(a)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
15	Benzo(g,h,i)perylene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
16	Beryllium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup>

วิภา

2) Digestion...



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
17	Bis(2-chloroethyl)ether	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
18	Bis(2-ethylhexyl)phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
21	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
22	Butyl benzyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
23	Cadmium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
24	Carbazole	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
27	Chlordane	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
28	p-Chloroaniline	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
32	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup>

วิมล



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
33	Chromium (III)	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup> 1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,15,18]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,16,18]</sup> 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation <sup>[7,8,14,18]</sup>
34	Chromium (VI)	Alkaline Digestion, Colorimetric Method <sup>[8,18]</sup>
35	Chrysene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[11,27]</sup>
36	Cyanide	1) Extraction, Distillation, Titrimetric Method <sup>[28,29,30]</sup> 2) Extraction, Distillation, Colorimetric Method <sup>[28,29,30]</sup>
37	2,4-D	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
38	DDD	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
39	DDE	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
40	DDT	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
41	Dibenz(a,h)anthracene	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[11,27]</sup>
42	Di-n-butyl phthalate	Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method <sup>[11,27]</sup>
43	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
45	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
46	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
47	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>
48	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method <sup>[13,26]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
49	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
50	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
51	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
52	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
53	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
54	Dieldrin	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
55	Diethyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
56	2,4-Dimethylphenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
57	2,4-Dinitrophenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
58	2,4-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
59	2,6-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
60	Di-n-Octyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
61	Endosulfan	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
62	Endrin	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
63	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
64	Fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
65	Fluorene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
66	Heptachlor	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
67	Heptachlor epoxide	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
68	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
69	n-Hexane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
70	$\alpha$ -HCH	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
71	$\beta$ -HCH	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
72	$\gamma$ -HCH	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
73	Hexachlorocyclopentadiene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
74	Hexachloroethane	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
75	Indeno(1,2,3-cd)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
76	Isophorone	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
77	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
78	Manganese	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
79	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method <sup>[20]</sup>
80	Methanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
81	Methoxychlor	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
82	Methyl bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
83	Methylene chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
84	2-Methylphenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
85	2-Methylnaphthalene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
86	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
87	Naphthalene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
88	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
89	Nitrobenzene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
90	N-Nitrosodiphenylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
91	N-Nitrosodi-n-propylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
92	Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 2,2',5,5'-Tetrachlorobiphenyl 2,2',4,5,5'-Pentachlorobiphenyl 2,2',3,4,4',5'- Hexachlorobiphenyl 2,2',4,4',5,5'- Hexachlorobiphenyl 2,2',3,4,4',5,5'- Heptachlorobiphenyl	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,25]</sup>
93	Pentachlorophenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
94	Phenanthrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
95	Phenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
96	Pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method <sup>[11,27]</sup>
97	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method <sup>[7,21]</sup>
98	Silver	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
99	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
100	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
101	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
102	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
103	Toxaphene	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,24]</sup>
104	TPH (C <sub>5</sub> -C <sub>8</sub> )	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
105	TPH (C <sub>8</sub> -C <sub>16</sub> )	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,22]</sup>
106	TPH (C <sub>16</sub> -C <sub>35</sub> )	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,22]</sup>
107	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
108	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
109	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
110	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
111	2,4,5-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
112	2,4,6-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method <sup>[11,23]</sup>
113	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
114	Vanadium	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>
115	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
116	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
117	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
118	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
119	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>



ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
120	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method <sup>[13,26]</sup>
121	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method <sup>[7,15]</sup> 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method <sup>[7,16]</sup> 3) Digestion, Inductively Coupled Plasma Method <sup>[7,14]</sup>

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