ภาคผนวก จ

เอกสารสอบเทียบเครื่องมือที่ใช้ในการตรวจวิเคราะห์

ตารางการสอบเทียบเครื่องมือที่ใช้ในการตรวจวัดและวิเคราะห์

Item	Description	Parameter	List of Equipment	Equipment No.	Calibration Date	Next Calibration
1.	Ambient Air	TSP	ORIFICE TRANSFER STANDARD/Tisch	S/N 0068	27/03/2025	March 2026
			High Volume Air Sampler/TET	S/N TSP-12	03/06/2025	June 2026
			Electronic Balance/METTLER TOLEDO	S/N C531025159	03/09/2025	September 2026
		PM-10	High Volume Air Sampler/TET	S/N PM10-13	02/06/2025	June 2026
			Electronic Balance/METTLER TOLEDO	S/N C531025159	03/09/2025	September 2026
		WS & WD	Wind speed and wind direction/Vantage VUE	S/N Display MS220705046	19/11/2025	November 2026
2.	Water	pH	pH Meter/Horiba F-71G	S/N V3B1F8H3	28/10/2025	October 2026
		Turbidity	Turbidity Meter/EUTECH TN-100	S/N 2655003	18/09/2025	September 2026
		TSS, SS	Electronic Balance/METTLER TOLEDO	S/N C531025159	03/09/2025	September 2026
		BOD	BOD Incubator/Model i250	S/N 0408-0115-0008	09/03/2026	March 2027
		DO	DO Meter/HORIBA	S/N D75J0012	13/01/2026	January 2027
		Total Coliform Bacteria	Incubator Model INE 500	S/N E.505.0595	09/03/2026	March 2027
		Oil & Grease	Electronic Balance/METTLER TOLEDO	S/N C531025159	03/09/2025	September 2026

JIRANATEE ASSOCIATES CO.,LTD.

Continuation of Certificate of Calibration Number COF-011-68

MEASUREMENT RESULTS:

The Orifice gas flow device was calibrated by direct comparison method with the Standard Rotary Displacement Meter (Roots Meter). The Humid air was used as a medium in the system. The standard conditions are 25°C (298.15 K) and 760 mmHg for standard temperature and standard pressure respectively.

Table 1: The results of Q Standard calibration data

Plate	Flow rate m^3/min	Pressure [Pa] mmHg	Temperature [Ta] °C	Temperature [Tm] °C	Δp_meter mmHg	Δp_Orifice inH_2O	Y	Standard Flow [Q_s] m^3/min
1	0.703	759.322	23.42	22.45	51.046	1.702	1.307	0.661
2	1.001	759.331	23.49	22.67	55.418	3.404	1.849	0.935
3	1.114	759.331	23.57	22.78	38.121	4.443	2.112	1.065
4	1.173	759.310	23.63	22.98	28.285	5.063	2.254	1.136
5	1.420	759.288	23.82	23.19	27.879	7.473	2.738	1.375

Slope (m): **2.00326**

Intercept (b): **-0.02008**

Correlation coefficient (r): **0.99979**

Uncertainty (k=2): **0.015** m^3/min

Table 2: The results of Q actual calibration data

Plate	Flow rate m^3/min	Pressure [Pa] mmHg	Temperature [Ta] °C	Temperature [Tm] °C	Δp_meter mmHg	Δp_Orifice inH_2O	Y	Standard Flow [Q_a] m^3/min
1	0.703	759.322	23.42	22.45	51.046	1.702	0.815	0.658
2	1.001	759.331	23.49	22.67	55.418	3.404	1.153	0.931
3	1.114	759.331	23.57	22.78	38.121	4.443	1.318	1.061
4	1.173	759.310	23.63	22.98	28.285	5.063	1.407	1.132
5	1.420	759.288	23.82	23.19	27.879	7.473	1.710	1.371

Slope (m): **1.25471**

Intercept (b): **-0.01252**

Correlation coefficient (r): **0.99980**

Uncertainty (k = 2): **0.015** m^3/min

End of Certificate of Calibration

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Jiranatee Associates Co.,Ltd.

JIRANATEE ASSOCIATES CO.,LTD.

Jiranatee Associates Co.,Ltd
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Mobile: +66863999453
E-mail: jnac-calibration@jiranatee.com
Web site: www.jiranatee.com

Accredited calibration laboratory
ISO/IEC 17025:2017
NSC-TISI-TIS 17025
CALIBRATION 0367

Flow measurement laboratory
Calibration services department.

NSC – TISI – TIS 17025
CALIBRATION 0367

CERTIFICATE OF CALIBRATION

Certificate No. : COF-011-68

MEASUREMENT ITEM	: Top Load Orifice
MANUFACTURER	: TISCH
MODEL/TYPE	: TE-5025A
SERIAL NUMBER	: 0068
ID NUMBER	: -
CONDITION AS-RECEIVED	: Used item
CUSTOMER	: Thai Environmental Technic Limited. 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
RECEIVED DATE	: 13 Mar 2025
MEASUREMENT DATE	: 25 Mar 2025
ISSUE DATE	: 27 Mar 2025

Calibration procedure:
The Orifice gas flow device was calibrated against Standard Rotary Displacement Meter (Roots Meter) Model G65/IMC/W2-dp. The WI-CL-004 was used as a calibration guideline.

Traceability:
This certificate provides a traceability of the measurement to recognized the national standards, and to realization of the international system of units (SI) through the NIMT (National Metrology Institute of Thailand) via Certificate number: MW-0016-25.

Uncertainty of Measurement:
The reported uncertainty of measurement is based on the standard uncertainty multiplied by a coverage factor k=2, Which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the GUM 'Evaluation of measurement data - Guide to the expression of uncertainty in measurement'

ENVIRONMENTAL CONDITIONS:
Ambient condition in the laboratory are as follow:

Temperature	: 23.0 ± 3.0	°C
Relative Humidity	: 55.0 ± 15.0	%RH
Atmospheric Pressure	: 1010 ± 10	hPa

CALIBRATION CONDITION:

Preconditioning	: 24 hours at ambient conditions.
Measurement Condition	: The average values during measurement are 23.5 °C and 52.5 %RH.

***NOTED:** The certificate is valid only to the item calibrated on date and place of calibration.*

TABULATION OF RESULTS:
The table on next page give the measured values.

Jiranatee Associates Co.,Ltd.

Calibrated by:

☑ Mr. Sorawit Thachalad
☐ Miss Jittraporn Lertsomphol

JIRANATEE ASSOCIATES CO.,LTD.

Approved signatory: .....
Mr. Parinya Booncharoen
Calibration Department Manager

THIS CERTIFICATE OF CALIBRATION MAY NOT BE REPRODUCED EXCEPT IN FULL UNLESS PERMISSION FOR REPRODUCTION HAS BEEN OBTAINED IN WRITING FROM THE LABORATORY

Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

High Volume TSP&PM-10 Calibration Report

Location : Thai Environmemtal Tech Site ID : Bangkok Date : 3-Jun-25

ITEM : TSP Serial No : (No.12) Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) :	760.00	Corrected Pressure (mm Hg) :	760.0
Temperature (°C) :	25.0	Temperature (deg K) :	298.0
Average Press. (mm Hg) :	754.8	Corrected Average (mm Hg) :	-
Average Temp (°C) :	31.6	Average Temp: (Deg K) :	-

Calibration Orifice

Make : Tisch	Qstd Slope : 2.00326
Model : TE-5025A	Qstd Intercept : -0.02008
Serial# : 0068	Calibration Due Date : 26-Mar-26

Calibration Information

Plate or Test #	ORIFICE (in H_2O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)
1	12.30	1.761	60.0	57.00
2	9.60	1.557	54.0	52.00
3	7.20	1.349	50.0	48.00
4	5.00	1.126	40.0	40.00
5	3.00	0.875	30.0	30.00

Linear Regression
Slope : 30.1498
Intercept : 5.1934
Corr. Coeff : 0.9896
# of Observations: 5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC =I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Calibrate By : _____

Approve By : Ramnarong

NOTE: Ensure calibration orifice has been certified within 12 months of use

Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

High Volume TSP&PM-10 Calibration Report

Location : Thai Environmemtal Tech Site ID : Bangkok Date : 2-Jun-25

ITEM : PM10 Serial No : (No. 13) Calibrate By : Pipat

Site Conditions

Barometric Pressure (mm Hg) :	760.00	Corrected Pressure (mm Hg) :	760.0
Temperature (°C) :	25.0	Temperature (deg K) :	298.0
Average Press. (mm Hg) :	754.6	Corrected Average (mm Hg) :	-
Average Temp (°C) :	32.6	Average Temp: (Deg K) :	-

Calibration Orifice

Make : Tisch	Qstd Slope : 2.00326
Model : TE-5025A	Qstd Intercept : -0.02008
Serial# : 0068	Calibration Due Date : 26-Mar-26

Calibration Information

Plate or Test #	ORIFICE (in H_2O)	Qstd (m3/min)	Indicate (CFM)	IC (corrected)
1	12.20	1.754	60.0	60.00
2	9.00	1.508	54.0	54.00
3	7.20	1.349	50.0	50.00
4	5.00	1.126	40.0	40.00
5	3.00	0.875	30.0	30.00

Linear Regression
Slope : 34.7184
Intercept : 0.8915
Corr. Coeff : 0.9907
# of Observations: 5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC =I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Calibrate By : _____

Approve By : Boonyai

NOTE: Ensure calibration orifice has been certified within 12 months of use

THAI METEOROLOGICAL DEPARTMENT

4353 Sukhumvit, Bangna, Bangkok 10260 Tel. 081-454-2804,0-2399-0469

Calibration Certificate

Issued by : Calibration & Test Section : Meteorological Instruments Bureau

Date of Issue 19 November, 2025 Certification No. 507/25

Object : Wind speed and wind direction

Manufacturer : Davis Instruments Inc.

Type : Vantage VUE Model No. : #6251EU

ID No. : No.37

Serial No. : Display MS220705046 Transmitter MT231004051

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung, Bangkok 10240.

Calibration Condition : Temperature 25.1 °C Barometric Pressure 1013.1 hPa

NATIONAL STANDARD WIND TUNNEL :

: Micromanometer Theodor Friedrichs FC014 Serial No. 9310119

: HOOK GAGE NO 1425 Pitot Tube Theodor Friedrichs Type 0800.0000 serial 9023

N.I.S.T. Test Reference Number 731/241460 : Standard Velocity at 20 - 30 m/sec

: Ultrasonic Anemometer Model DA-650-3TV (sensor TR-90AH)

Serial Number 110730029 (sensor 120629586)

JAPAN QUALITY ASSURANCE ORGANIZATION : Standard Velocity at 0 - 20 m/sec

Calibrated by : Watcharapol Subwat
Mechanical Engineer

Signed : Pisood Promsut
Mr. Pisood Promsut

(Authorised Signatory)
for the Chief
Sub-Standard Instrument

THAI METEOROLOGICAL DEPARTMENT

4353 Sukhumvit, Bangna, Bangkok 10260 Tel. 081-454-2804,0-2399-0469

The Result of Calibration

Certification No. 507/25

19 November, 2025

Standard	HOOK GAGE NO. 1425			TESTED ANEMOMETER	
Ultrasonic Anemometer	Pressure	Vacumm	Velocity	Velocity	Correction
m/sec	inches H2O	inches H2O	m/sec	m/sec	m/sec
1.00	-	-	-	0.9	0.10
3.02	-	-	-	2.7	0.32
5.00	-	-	-	4.9	0.10
7.00	-	-	-	6.9	0.10
9.02	-	-	-	9.0	0.02
11.01	-	-	-	10.9	0.11
13.01	-	-	-	13.0	0.01
15.01	-	-	-	15.0	0.01
17.02	-	-	-	17.0	0.02
20.02	-	-	-	20.0	0.02

Vane Angel Bench Stand Model 18112 Young Meteorological Instruments	
WIND DIRECTION	TESTED WIND DIRECTION
0	0
90	90
180	180
270	270

Calibrated by :

Mr. Watcharapol Subwat

Mechanical Engineer

Calibration & Test Section

Meteorological Instruments Bureau

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
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CALIBRATION 0008

Certificate of Calibration

Cert.No.: 25CHO572
Page.: 1 of 2

Equipment :	pH Meter
Manufacturer :	Horiba
Model :	F-71G
Serial No. :	V3B1F8H3
ID No. :	Ins-LAB-025
Condition As-Received:	Used Item
Received Date :	28 October 2025
Calibration Date :	28 October 2025
Reference :	2510-0662OC-1
Submitted by :	Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
Calibration Place :	Laboratory (Thai Environmental Technic Limited)
Ambient Temperature :	(27.1 to 26.2) °C (On-Site)
Relative Humidity :	(56 to 59) % (On-Site)
Calibration Procedure :	In - house method : - CP-OCH2 by direct measurement with DC voltage standard and direct measurement with certified reference material (CRM)
Calibrated by :	Uthen Kankawi
Approved by :	Saithip Approved Signatory

( ) Chakrit Waewwanjua
( ) Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 30 October 2025

The Uncertainties are for a confidence probability of approximately 95%

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Condition of this calibration result

1. Reference Standard Instrument

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Document Process Calibrator	58440003	130RC120	24E3731	14 Nov 2025
2) Digital Thermometer	-	130RC017	25T625	23 Apr 2026

- This measurement result is traceable to SI through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd., ANSI-ASQ National Accreditation Board, Accredited No. AR-1835

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 4.007	CPA chem	1114384	12 Jun 2027
pH 6.876	CPA chem	1005301	15 Jun 2026
pH 9.180	CPA chem	1135356	16 Aug 2026

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : mV Measurement

Performing standard curve by Document Process Calibrator at pH (4,7,10)

Unit Under Calibration	Nominal Value	Standard Voltage Input	Actual Reading		Uncertainty of Measurement (±mV)	Coverage factor *k*
	pH	mV	mV	pH		
pH Meter	4.000	177.48	177.5	4.000	0.058	2.00
S/N.: V3B1F8H3	6.860	8.28	8.3	6.860	0.058	2.00
	7.000	0.00	0.0	7.000	0.058	2.00
	9.180	-128.97	-128.9	9.180	0.058	2.00
	10.000	-177.48	-177.4	10.000	0.058	2.00

Function : pH Measurement

Performing three buffers standard curve by using buffer nominal pH (4,7,9)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH Measurement (±)	Coverage factor *k*
pH Electrode	4.007	4.007	168.7	0.0048	2.00
S/N.: 9X2E0223	6.876	6.875	1.2	0.0086	2.00
	9.180	9.176	-134.4	0.014	2.00

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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TEL.0-2717-3000-29 FAX.0-2719-9484

Certificate of Calibration

Cert.No.: 25CH1095

Equipment :	Turbidity Meter
Manufacturer :	Thermo Scientific
Model :	EUTECH TN-100
Serial No. :	2655003
ID. No. :	-
Condition As-Received:	Used Item
Received Date :	05 September 2025
Calibration Date :	18 September 2025
Reference :	2509-0224DSC-13
Submitted by :	Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
Ambient Temperature :	(23 ± 3.0) °C
Relative Humidity :	(50 ± 20) %
Calibration Procedure :	In - house method : CP-CH11 Direct measurement by using Formazin standard solution
Calibrated by :	Walalak Sirithean
Approved by :	Approved Signatory

(✓) Chakrit Waewwanjua
( ) Ponpan Paipim
( ) Saithip Meangmai

Issue Date : 19 September 2025

The Uncertainties are for a confidence probability of approximately 95%

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Condition of this calibration result

1. Reference Standard Instruments :

Instruments	ID No.	Certificate No.	Due date
1) Data Logger	130EC012	24H2043	23 Sep 2025
2) Liquid-in Glass Thermometer	130RC003	25I440	16 Apr 2026

- This measurement result is traceable to SI through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : Turbidity Standard solution (Formzin)
   - The measurement results are traceable to SI through CPA chem Ltd.,

Turbidity Solution	Manufacturer	Lot No.	Exp. date
20.0 NTU	CPA Chem	1088008	18 Mar 2026
100.0 NTU	CPA Chem	1088007	18 Mar 2026
800 NTU	CPA Chem	1088017	18 Mar 2026

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration result

Performing three - Formazin suspension standard curve by using 20, 100, 800 NTU
Tubidity Meter serial number : 2655003

Standard Formazine suspension (NTU)	UUC* Reading (NTU)	Uncertainty of Measurement (± NTU)	Coverage Factor *k*
0.1	0.23	0.027	2.00
20.0	20.1	0.21	2.00
100.0	101	1.3	2.05
800	800	4.3	2.00

Remark
- **UUC* = Unit Under Calibration**
- **NTU = Nephelometric Turbidity Units**
- **0.1 NTU has been prepared dilution from 20.0 NTU**

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k* , providing a level of confidence of approximately 95 %.

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CALIBRATION 0068

Certificate of Calibration

Cert.No.: 25MM381
Page.: 1 of 3

Equipment :	Electronic Balance
Manufacturer :	Mettler Toledo
Model :	MR204
Serial No. :	C531025159
ID No. :	-
Submitted by :	Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
Location :	Balance Room
Received order :	03 September 2025
Calibration Date :	03 September 2025
Ambient Temperature :	15 °C to 40 °C
Relative Humidity :	30 % to 90 %
Calibrated by :	Tawatchai Pama
Approved by :	Kunchit Approved Signatory

( ) Chakrit Waewwanjua
( ) Suwit Imjai
(✓) Kunchit Promprat

Issue Date : 04 September 2025

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

Equipment : Electronic Balance
Condition As-Received : New Item
Reference : 2509-0005OC-2

Cert.No.: 25MM381

Procedure used :-

Calibration were conducted using in-house calibration procedure CP-OB01 based on UKAS LAB 14 according to direct measurement method against standard weight.

Condition of this result of calibration

1. Reference standard instruments:-

Instruments	Serial No.	Cert. No.	Traceable	Due date
1) Standard Weight Set (E2)	G0602134	MM-0066-24	NIMT	25 Apr 2026
2) Standard Weight Set (E2)	-	MM-0067-24	NIMT	23 Apr 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This result of calibration was made on requested at the point specified by customer.
4. This certificate is not certified for any commercial transaction.
5. This measurement result is traceable to the International System of Unit maintained through :

Remark : NIMT : National Institute of Metrology Thailand

Result of calibration ( ) Without Adjustment (*) After Adjustment by Internal Calibration

Range capacity : 0 g to 220 g **Resolution** 0.0001 g

Before Adjustment :

Applied Weight (g)	Balance Reading (g)	Correction (g)	Measurement Uncertainty (± mg)	Coverage Factor (k)
100	99.9999	+0.0001	0.18	2
200	199.9996	+0.0004	0.31	2

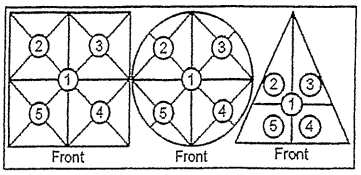
After Adjustment :

1. **Determination of the standard deviation of weighing machine** (n = 10)

Applied Weight (g)	Standard Deviation of Reading (g)
100	0.00005
200	0.00008

Equipment : Electronic Balance
Condition As-Received : New Item
Reference : 2509-0005OC-2

Result of calibration



2. Effect of off center loading

A mass of 100 g was placed to various position on the pan.
The weighing machine reading error obtained is given in the table

Position 1 (g)	Position 2 (g)	Position 3 (g)	Position 4 (g)	Position 5 (g)	Maximum difference between off-center and central loading (g)
-0.0003	-0.0003	-0.0004	-0.0004	-0.0002	0.0001

3. Departure from nominal value

Applied Weight (g)	Balance Reading (g)	Correction (g)	Measurement Uncertainty (± mg)	Coverage Factor (*k*)
Unload	0.0000	0.0000	0.12	2.06
0.01	0.0100	0.0000	0.12	2.06
0.1	0.1000	0.0000	0.12	2.06
0.5	0.5000	0.0000	0.12	2.06
1	1.0000	0.0000	0.12	2.06
5	5.0000	0.0000	0.12	2.06
10	10.0000	0.0000	0.12	2.06
25	24.9999	+0.0001	0.13	2.04
50	49.9999	+0.0001	0.14	2.03
100	99.9998	+0.0002	0.18	2
200	199.9997	+0.0003	0.31	2

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor ***k***, providing a level of confidence of approximately 95 %.

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NSC-TISI-TIS17025
CALIBRATION 0008

Certificate of Calibration

Cert. No.: 26TM425
Page : 1 of 3

Equipment :	BOD Incubator
Manufacturer :	Accuplus
Model :	I250
Serial No. :	0408-0115-0008
ID No. :	Ins-LAB-046
Submitted by :	Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
Location :	Laboratory (Thai Environmental Technic Limited)
Received Order :	09 March 2026
Calibration Date :	09 March 2026
Ambient Temperature :	(26 ± 10) °C
Relative Humidity :	(50 ± 30) %
AC Line Voltage :	(220 ± 22) V
Calibrated by :	Preecha Hlahib
Approved by :	Kunchit Approved Signatory

( ) Chakrit Waewwanjua
( ) Suwit Imjai
(✓) Kunchit Promprat

Issue Date : 21 March 2026

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

Equipment : BOD Incubator **Cert. No.:** 26TM425

Condition As-Received : Used Item **Page :** 2 of 3

Reference : 2603-0127OC-10

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector (RTD).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY49023932	25LM121	TPA,	27 Jul 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :

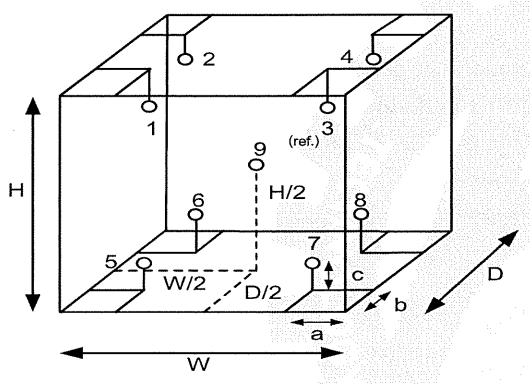
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Fresh air setting : Not Available

Environment during calibration		
	Beginning	Finished
Temp. (°C)	27	26
REL.Humid. (%)	56	59
AC Supply (Volt)	220	220



Position :	Ref. Std. ID No.:
1	19-16RTD-01
2	19-16RTD-02
3	19-16RTD-03
4	23-16RTD-04
5	19-16RTD-05
6	19-14RTD-06
7	21-16RTD-07
8	19-16RTD-08
9 (ref.)	19-16RTD-09

Probe Installation Details :

a =	10	cm
b =	10	cm
c =	10	cm

Dimension of Chamber :

D =	0.48	m
W =	0.50	m
H =	1.1	m
Capacity =	0.26	m^3

Equipment : BOD Incubator

Condition As-Received : Used Item

Reference : 2603-0127OC-10

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Fresh air setting : Not Available

Cert. No.: 26TM425

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor *k*
20.0	20.0	20.0	0.48	0.48	1.1	2

Calibration Point (°C)	Measured Temperature (°C) Position									Uncertainty (±°C)
	1	2	3	4	5	6	7	8	9 (ref.)	
20.0	20.313	20.256	20.108	20.244	20.183	20.157	19.969	19.986	20.121	0.64

Average* : The average of 30 values in each position.

Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.

Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.

Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.

UUC* : Unit Under Calibration

Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor ***k***, providing a level of confidence of approximately 95 %.

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METROLOGY SYSTEM (THAILAND) CO.,LTD.
A Trescal company

Certificate of Calibration

Certificate Number : SPR26010053-2 Page : 1 of 3

Customer : Thai Environmental Technic Limited.
1/6 Soi Ramkhamhaeng 145, Khwaeng Saphan Sung, Khet Saphan Sung, Bangkok 10240, Thailand.

Equipment Name	:	DO Meter			
Manufacturer	:	Horiba			
Model	:	OM-71G			
Serial Number	:	D75J0012			
ID. Number	:	No.07			
Environmental Conditions					
Ambient Temperature	:	23 °C ± 2 °C	Received Date	:	09 Jan 2026
Relative Humidity	:	50 % ± 15 %	Calibration Date	:	13 Jan 2026
Location of Calibration	:	In-Lab	Recommend Due Date	:	13 Jan 2027
Calibration Procedure	:	In-House Method	Date of Issue	:	14 Jan 2026

Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received.Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

The calibration certificate shall not be reproduced except in full,without written approval of SP Metrology System (Thailand).

Calibrated by : Mr.Kijja Visitsilp
Calibration Officer

Approved by

(Mr.Pootthipong A.)
Authorized Signatory

SPM A Trescal SP Metrology System (Thailand) Co., Ltd.

69/29 Moo 1 Klongsi Klongluang Pathumthani 12120 Tel: (662) 193-2217-20 www.spmetrology.co.th www.สปเมโทรโลยี.com

METROLOGY SYSTEM (THAILAND) CO.,LTD.
A Trescal company

Calibration Report

Certificate Number : SPR26010053-2

Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Zero Oxygen Solution	HI7040L	Lot S0027-23 _	21C31	21 Mar 2028

Traceability

This certification is traceable to the International System of Unit maintained at :

HANNA - Hanna Instruments (Thailand) Ltd.

69/29 Moo 1 Klongsi Klongluang Pathumthani 12120 Tel: (662) 193-2217-20 www.spmetrology.co.th www.สอบเทียบเครื่องมือวัด.com

METROLOGY SYSTEM (THAILAND) CO.,LTD.
A Trescal company

Result of Calibration

Certificate Number : SPR26010053-2

Dissolved Oxygen Permanance Test

Jnit : mg/L

Actual Standard	UUC Reading	Error	Uncertainty (±)
0.00	0.44	0.44	0.13
8.26	6.28	-1.98	0.13

Note :

The result of calibration was found accurate as show on date and place of calibration only. This Certificate is not certified for any commercial transaction.

Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor k = 2.00, providing a level of confidence approximately 95%.

- End of Certificate -

69/29 Moo 1 Klongsi Klongluang Pathumthani 12120 Tel: (662) 193-2217-20 www.spmetrology.co.th www.สปเมตโรโลยี.com

TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484

NSC-TISI-TIS17025
CALIBRATION 0008

Certificate of Calibration

Cert. No.: 26TM418
Page : 1 of 3

Equipment :	Incubator
Manufacturer :	Memmert
Model :	INE 500
Serial No. :	E505.0595
ID No. :	Ins-LAB-041
Submitted by :	Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145, Khwaeng/Khet Saphan Sung, Bangkok 10240
Location :	Bacteria Room
Received Order :	09 March 2026
Calibration Date :	10 - 11 March 2026
Ambient Temperature :	(26 ± 10) °C
Relative Humidity :	(50 ± 30) %
AC Line Voltage :	(220 ± 22) V

Calibrated by : Preecha Hlahib

Approved by : Kunchit

Approved Signatory

( ) Chakrit Waewwanjua
( ) Suwit Imjai
(✓) Kunchit Promprat

Issue Date : 24 March 2026

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

Equipment : Incubator **Cert. No.:** 26TM418

Condition As-Received : Used Item

Reference : 2603-0127OC-2

Procedure Used :-

Calibration were conducted using calibration procedure CP-OT02 based on TLAS G-20 according to direct measurement method with Data Acquisition which connected with Resistance Temperature Detector (RTD).

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

Instrument	Serial No.	Cert. No.	Traceable	Due Date
1) Data Acquisition	MY49023932	25LM121	TPA	27 Jul 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This measurement result is traceable to the International System of Unit maintained through :

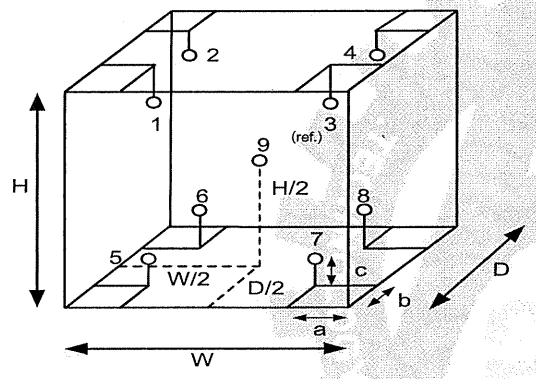
Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function of UUC* : Temperature Source

Fresh air setting : Close

Environment during calibration		
	Beginning	Finished
Temp. (°C)	24	20
REL.Humid. (%)	34	40
AC Supply (Volt)	221	221



Position :	Ref. Std. ID No.:
1	20-16RTD-01
2	20-16RTD-02
3	20-16RTD-03
4	20-16RTD-04
5	22-16RTD-05
6	20-16RTD-06
7	20-16RTD-07
8	22-16RTD-08
9 (ref.)	22-16RTD-09

Probe Installation Details :

a = 5.0 cm

b = 5.0 cm

c = 5.0 cm

Dimension of Chamber :

D = 0.40 m

W = 0.56 m

H = 0.48 m

Capacity = 0.11 m^3

Equipment : Incubator
Condition As-Received : Used Item
Reference : 2603-0127OC-2
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Close

Cert. No.: 26TM418

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor *k*
35.0	35.0	35.0	0.031	0.27	0.43	2
41.5	41.5	41.5	0.033	0.68	0.96	2
44.5	44.5	44.5	0.031	0.48	0.73	2

Calibration Point (°C)	Measured Temperature (°C) Position									Uncertainty (±°C)
	1	2	3	4	5	6	7	8	9 (ref.)	
35.0	35.149	35.101	35.194	35.177	34.802	35.192	34.935	34.958	35.066	0.30
41.5	41.831	41.732	41.918	41.951	41.009	41.340	41.027	41.389	41.651	0.30
44.5	44.674	44.571	44.704	44.661	44.022	44.250	44.052	44.243	44.462	0.30

Average* : The average of 30 values in each position.
Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.
Temperature uniformity : The maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady-state conditions.
Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity .

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor ***k***, providing a level of confidence of approximately 95 %.

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ภาคผนวก ฉ

หนังสือขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
เลขทะเบียน ว-236





ที่ อก ๐๓๑๐(๑)/ ๙ ๘ ๗ ๖

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๒ ๒ มิถุนายน ๒๕๖๖

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๓ มีนาคม ๒๕๖๖

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด จำนวน ๒๘ แผ่น

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

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมดูแลห้องปฏิบัติการวิเคราะห์

๑) นายณัฐพงศ์ โคตะมา	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๑
๒) นางสาววารีรัตน์ ประชุมแดง	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๒
๓) นางพรทิพย์ เพชรชี	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๓
๔) นายสมชาย ปิยะวรสกุล	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๔
๕) นายประมวล มูลสาร	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๕
๖) นายรัฐพล สุขดี	ทะเบียนเลขที่ ว-๒๓๖-ค-๐๐๐๖

ข. เจ้าหน้าที่ประจำห้องปฏิบัติการวิเคราะห์

๑) นางสาวทอฝัน อัศวชัยสุวิกรม	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๑
๒) นางสาวกมลลักษณ์ ดีมงคล	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๒
๓) นางสาวกนกวรรณ เริ่มประชาธิปไตย	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๓
๔) นางสาวฐิติพรรณ ศรีสุวรรณ์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๔
๕) นางสาวธนิดา กมุทชาติ	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๕
๖) นางสาวมาลินี มณีรัตน์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๖
๗) นางสาวพัชราพรรณ สว่างภพ	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๗
๘) นายสุริยะพงศ์ ยงยุทธ	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๘
๙) นางสาวดอกรัก สีแหล้	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๐๙
๑๐) นางสาวศิริพร กาจุ๊ด	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๐
๑๑) นายสุชาติ ศรีบุญ	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๑
๑๒) นายเกียรติศักดิ์ วันดี	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๒

๑๓) นายจิรวัฒน์...

๑๓) นายจิรวัฒน์ อินทะเสย์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๓
๑๔) นางสาวนิตยา เย็นวัฒนา	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๔
๑๕) นางสาวณัฐธญาน์ สารแสง	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๕
๑๖) นายกิตติศักดิ์ เมืองงาม	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๖
๑๗) นายเทวพงศ์ เชยวัดเกาะ	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๗
๑๘) นายเฉลิมวุฒิ พูลสงวน	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๘
๑๙) นางสาวนุชศิริ อรชร	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๑๙
๒๐) นางสาววรรณศิริ สุริยวงศ์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๐
๒๑) นายวิทูน วลัยรัตน์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๑
๒๒) นางสาวกังสดาล จอกสูงเนิน	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๒
๒๓) นางสาวสุภัคชญา อยู่นิ่ม	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๓
๒๔) นางสาวลลิตา ตรัยโตมร	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๔
๒๕) นายเจอ แซ่หว้า	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๕
๒๖) นายอรรถพล วงศ์สวัสดิ์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๖
๒๗) นายประหยัด จิวเดช	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๗
๒๘) นายเบญจพล กรีคงคา	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๘
๒๙) นายวีรพล บุดสา	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๒๙
๓๐) นายพิเชฐ อยู่ดีรัมย์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๓๐
๓๑) นายณัฐดนัย ศรีรัตน์ชัชวาลย์	ทะเบียนเลขที่ ว-๒๓๖-จ-๐๐๓๑

ค. ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำเสีย น้ำใต้ดิน อากาศเสีย สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว และดิน ตามสิ่งที่ส่งมาด้วย

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

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นายประสม ดำรงพงษ์)
ผู้อำนวยการกองวิจัยและเตือนภัยมลพิษโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเตือนภัยมลพิษโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. ๐ ๒๔๓๐ ๖๓๑๒ ต่อ ๒๑๐๓-๕
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เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด เลขทะเบียน ว-๒๓๖
ที่ อก ๐๓๑๐(๑)/ ๙๘๗๖ ลงวันที่ ๒๒ มิถุนายน ๒๕๖๖

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๓๓๗ รายการ

น้ำเสีย จำนวน 40 รายการ

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

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

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
39	Trivalent Chromium	Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation[4]
40	Zinc	1) Digestion, Direct Air-Acetylene Flame Method[4] 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method[4] 3) Digestion, Inductively Coupled Plasma Method[4]

น้ำใต้ดิน จำนวน 122 รายการ

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

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

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

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

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

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
91	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
92	Polychlorinated Biphenyls PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Liquid-Liquid Extraction, Gas Chromatographic Method[4]
93	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method[4]
94	pH	Electrometric Method[4]
95	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
96	Phenol	1) Distillation, Direct Photometric Method[4] 2) Liquid-Liquid Extraction, Gas Chromatographic Method[4]
97	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method[4]
98	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[4]
99	Silver	1) Digestion, Direct Air-Acetylene Flame Method[4] 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method[4] 3) Digestion, Inductively Coupled Plasma Method[4]
100	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method[4]
101	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method[4]
102	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method[4]
103	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method[4]
104	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic Method[4]
105	TPH (C_5-C_8)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[12,22]

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

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 18 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method[5] 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[5]
2	Arsenic	Isokinetic Sampling, Digestion, Hydride Generation/ Atomic Absorption Spectrometric Method[5]
3	Carbon monoxide	Instrumental Analyzer Method[5]
4	Chlorine	Absorption Sampling, Ion Chromatographic Method[5]
5	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method[5]
6	Cresol	Adsorption Sampling, Gas Chromatographic Method[5]
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)[5]
8	Hydrogen Chloride	Absorption Sampling, Ion Chromatographic Method[5]
9	Hydrogen Fluoride	Absorption Sampling, Ion Chromatographic Method[5]
10	Hydrogen Sulfide	Absorption Sampling, Iodometric Method[5]
11	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method[5] 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[5]
12	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[5]
13	Opacity	Ringelmann's Method[2]
14	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method[5] 2) Instrumental Analyzer Method[5]

15 Sulfur dioxide...

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

<u>สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว จำนวน 36 รายการ</u>

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

4) Digestion...

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

3) Waste Extraction...

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

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

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

3) Soxhlet...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
		3) Soxhlet Extraction, Gas Chromatographic Method[11,24]
24	Mirex	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[1,9,24] 2) Soxhlet Extraction, Gas Chromatographic Method[11,24]
25	Molybdenum	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[7,16] 6) Digestion, Inductively Coupled Plasma Method[7,14]
26	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[7,16] 6) Digestion, Inductively Coupled Plasma Method[7,14]
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[1,9,25] 2) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method[1,10,25] 3) Soxhlet Extraction, Gas Chromatographic Method[11,25]

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

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

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

ดิน จำนวน 121 รายการ

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

2) Digestion...

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

2) Digestion...

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

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

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

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
89	Nitrobenzene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,27]
90	N-Nitrosodiphenylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,27]
91	N-Nitrosodi-n-propylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,27]
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[11,25]
93	Pentachlorophenol	Soxhlet Extraction, Gas Chromatographic Method[11,24]
94	Phenanthrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,27]
95	Phenol	Soxhlet Extraction, Gas Chromatographic Method[11,23]
96	Pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method[11,27]
97	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[7,21]
98	Silver	1) Digestion, Flame Atomic Absorption Spectrometric Method[7,15] 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[7,16] 3) Digestion, Inductively Coupled Plasma Method[7,14]
99	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
100	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
101	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
102	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
103	Toxaphene	Soxhlet Extraction, Gas Chromatographic Method[11,24]
104	TPH (C_5-C_8)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
105	TPH ($C_{>8}$-C_{16})	Soxhlet Extraction, Gas Chromatographic Method[11,22]
106	TPH ($C_{>16}$-C_{35})	Soxhlet Extraction, Gas Chromatographic Method[11,22]
107	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
108	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
109	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
110	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
111	2,4,5-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method[11,23]
112	2,4,6-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method[11,23]
113	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
114	Vanadium	1) Digestion, Flame Atomic Absorption Spectrometric Method[7,15] 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method[7,16] 3) Digestion, Inductively Coupled Plasma Method[7,14]
115	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
116	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
117	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
118	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]
119	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method[13,26]

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

<u>เอกสารอ้างอิง</u>

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