# ภาคผนวก ซ
## ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

# ภาคผนวก ซ-1
# ผลการวิเคราะห์คุณภาพน้ำผิวดิน

ช่วงก่อนมีกิจกรรมการทดสอบท่อด้วยวิธีทางชลสถิต

LIAE Limited Analyst and Engineering Consultant Co., Ltd.

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| PROJECT NAME | : [redacted] | | |
| CUSTOMER NAME | : CHI-CHYA JOINT VENTURE | | |
| ADDRESS | : 555 RASA TOWER 1, 19TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK [redacted] | | |
| CONTACT INFORMATION | : TEL : [redacted] | | |
| SAMPLING SOURCE | : - | | |
| SAMPLE TYPE | : SURFACE WATER | RECEIVED DATE | : [redacted] |
| SAMPLING DATE | : DECEMBER 19, 2025 | ANALYTICAL DATE | : [redacted] |
| SAMPLING TIME | : 11:15 HOUR | ISSUE DATE | : [redacted] |
| SAMPLING METHOD | : GRAB | REPORT NO. | : [redacted] |
| SAMPLING BY | : MR. PHATSAWUT THERAKEON | WORK NO. | : [redacted] |
| ANALYZED BY | : MISS. SAPHATSON KHUNKHUN | ANALYSIS NO. | : [redacted] |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-H+ B AND 1983 B | 7.1 | - |
| TEMPERATURE* | °C | THERMOMETRY (AT SITE) (SM PART 2550 B) | 30.2 | - |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 2 | 2 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 27.0 | 5.0 |
| SAMPLE CONDITION | | | | |
| WATER'S COLOUR/TURBID | | | YELLOWISH BROWN | |
| SEDIMENT | | | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

** : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

[redacted]

[redacted]

- End of Analysis Report -

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บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด
ATOM-LAB ENVIRONMENTAL CO., LTD.
สำนักงานใหญ่ : 54/110 หมู่ที่ 4 ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343

## ANALYSIS REPORT

| | | | | | |
|---|---|---|---|---|---|
| | | | | เลขที่ใบรายงานผล | : QT2511023 |
| ชื่อโครงการ | : | โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2) | | รหัสตัวอย่าง | : W154/12/68 |
| | | | | ประเภทตัวอย่าง | : คุณภาพน้ำผิวดิน |
| ชื่อลูกค้า | : | ชิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น | | วันที่เก็บตัวอย่าง | : 24 ธันวาคม 2568 |
| ที่อยู่ลูกค้า | : | 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900 | | วันที่ทดสอบ | : 24-25 ธันวาคม 2568 |
| | | | | วันที่รายงานผล | : 25 ธันวาคม 2568 |
| สถานีตรวจวัด | : | คลองสำโรง ตำบลบางพลีใหญ่ อำเภอบางพลี จังหวัดสมุทรปราการ | | เวลาเก็บตัวอย่าง | : 13.15 น. |
| ตำแหน่งพิกัด | : | 47 P 0682303 E, 1505323 N | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| เก็บตัวอย่างโดย | : | นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001 | | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) | 31.3 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 H+B) | 7.8 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) | 35 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) | 2 |
| ลักษณะสภาพตัวอย่างที่วิเคราะห์ | | เหลือง ขุ่น มีตะกอน | |

P. Chanida

(CHANIDA PHAOPHANPLAEK)
Results Analyst
ว-343-จ-0002

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ว-343-ค-0003

ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด

ALE
ATOMLAB ENVIRONMENTAL CO., LTD.

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| ชื่อตัวอย่าง | : | เลขที่รับตัวอย่าง | : |
| ผู้ส่งตัวอย่าง | : | วันที่รับตัวอย่าง | : |
| ผู้ดูดตัวอย่าง | : | วันที่ตรวจวิเคราะห์ | : |
| สถานที่เก็บตัวอย่าง | : | วันที่ออกรายงานผล | : |
| จำนวนตัวอย่าง | : | เวลาที่เก็บตัวอย่าง | : |
| เงื่อนไขตัวอย่าง | : | วิธีเก็บตัวอย่าง | : |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ * | ผลการวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (ref. 2560 B) | 29.8 |
| 2. ค่าความเป็นกรด-ด่าง (pH) | | Electrometric Method (ref. 4500-H B) | 7.3 |
| 3. ความต้องการออกซิเจนที่ละลาย (Dissolved Oxygen) | mg/L | Direct at 20.0-25.0 °C (ref. 2540 C) | 21 |
| 4. ไนโตรเจนทั้งหมด (Total Nitrogen) | mg/L | Copper-cadmium Reduction Method (ref. 4500-N) | 2 |
| ผู้วิเคราะห์ตัวอย่าง/หัวหน้างาน | | เห็นชอบ (Approved) | |

หมายเหตุ * วิธีการวิเคราะห์ตามคู่มือ Standard Methods for the Examination of Water and Wastewater

CHAMON PHACHAMPLANG
Results Analyst
ง 343-5 0002

KANNAPAT PUSUWAN
Laboratory Supervisor
ง 343-4 0003

# ช่วงที่มีกิจกรรมการทดสอบท่อด้วยวิธีทางชลสถิต

United Analyst and Engineering Consultant Co., Ltd.
9 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2747 3818 Fax 0 2747 3880 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

ISO/IEC 17025
TESTING 0347

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGYAIKORE - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CH KARNCHANG PUBLIC COMPANY LIMITED | | |
| **ADDRESS** | : 209 SASA TOWER 1, 26TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL. 081 909 1544 e-mail : wilaiwg@cpe-int.com | | |
| **SAMPLING SOURCE** | : CPF [illegible] | | |
| **SAMPLE TYPE** | : SURFACE WATER | **RECEIVED DATE** | : JANUARY 9, 2026 |
| **SAMPLING DATE** | : JANUARY 5, 2026 | **ANALYTICAL DATE** | : JANUARY 9-13, 2026 |
| **SAMPLING TIME** | : 11.00 HOUR | **ISSUE DATE** | : JANUARY 15, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-[illegible] |
| **SAMPLING BY** | : MR. ANUSART SUKTOEI | **WORK NO.** | : 2601-[illegible] |
| **ANALYZED BY** | : MISS. NAPAPORN KHUNNARAKUN | **ANALYSIS NO.** | : T26AA139-[illegible] |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT [illegible] T26AA139-0002 | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|
| pH | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9040 B | 7.9 (24.7°C) | - |
| TEMPERATURE* | °C | THERMOMETER (AT SITE) SM PART 2550 B | 24.7 | - |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | 3 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 20.5 | 5.0 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR(TURBID) | | | YELLOWISH | |
| SEDIMENT | | | BROWN | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Wilailak Srisuk
(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

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ISO/IEC 17025
TESTING 0347

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGYAIKORE - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CH KARNCHANG PUBLIC COMPANY LIMITED | | |
| **ADDRESS** | : 209 SASA TOWER 1, 26TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL. 081 909 1544 e-mail : wilaiwg@cpe-int.com | | |
| **SAMPLING SOURCE** | : CPF [illegible] | | |
| **SAMPLE TYPE** | : SURFACE WATER | **RECEIVED DATE** | : JANUARY 9, 2026 |
| **SAMPLING DATE** | : JANUARY 5, 2026 | **ANALYTICAL DATE** | : JANUARY 9-13, 2026 |
| **SAMPLING TIME** | : 11.00 HOUR | **ISSUE DATE** | : JANUARY 15, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-[illegible] |
| **SAMPLING BY** | : MR. ANUSART SUKTOEI | **WORK NO.** | : 2601-[illegible] |
| **ANALYZED BY** | : MISS. NAPAPORN KHUNNARAKUN | **ANALYSIS NO.** | : T26AA139-[illegible] |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT [illegible] T26AA139-0003 | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|
| pH | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9040 B | 7.9 (24.2°C) | - |
| TEMPERATURE* | °C | THERMOMETER (AT SITE) SM PART 2550 B | 24.2 | - |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | 3 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 30.5 | 5.0 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR(TURBID) | | | YELLOWISH | |
| SEDIMENT | | | BROWN | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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SM STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Wilailak Srisuk
(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| PRODUCT NAME | : | | |
| CUSTOMER NAME | : | | |
| ADDRESS | : | | |
| CONTACT INFORMATION | : | | |
| SAMPLING SOURCE | : | | |
| SAMPLE TYPE | : | | |
| SAMPLING DATE | : | | |
| SAMPLING TIME | : | | |
| SAMPLING METHOD | : | | |
| SAMPLING BY | : | | |
| ANALYZED BY | : | | |
| RECEIVED DATE | : | | |
| ANALYTICAL DATE | : | | |
| ISSUE DATE | : | | |
| REPORT NO. | : | | |
| WORK NO. | : | | |
| ANALYSIS NO. | : | | |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| SAMPLE CONDITION | | | | |
| | | | | |

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** : ADOPTED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24TH EDITION, 2023

Wibulak Sriwuk

(MISS WILAILAK SRIWUK)
LABORATORY SUPERVISOR

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บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด
ATOM-LAB ENVIRONMENTAL CO., LTD.
สำนักงานใหญ่ : 54/110 หมู่ที่ 4 ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343


# ANALYSIS REPORT

| | | | | | |
|---|---|---|---|---|---|
| | | | | เลขที่ใบรายงานผล | : QT2511023 |
| ชื่อโครงการ | : | โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2) | | รหัสตัวอย่าง | : W019/01/69 |
| | | | | ประเภทตัวอย่าง | : คุณภาพน้ำผิวดิน |
| ชื่อลูกค้า | : | ซิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น | | วันที่เก็บตัวอย่าง | : 9 มกราคม 2569 |
| ที่อยู่ลูกค้า | : | 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900 | | วันที่ทดสอบ | : 9-12 มกราคม 2569 |
| | | | | วันที่รายงานผล | : 12 มกราคม 2569 |
| สถานีตรวจวัด | : | คลองสำโรงด้านเหนือน้ำประมาณ 100 เมตร จากจุดที่มีการระบายน้ำทิ้งจากการทดสอบท่อฯ | | เวลาเก็บตัวอย่าง | : 13.33 น. |
| | | | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| ตำแหน่งพิกัด | : | 47 P 0682307 E, 1505339 N | | | |
| เก็บตัวอย่างโดย | : | นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001 | | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) [1] | 29.3 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 $H^+$B) [1] | 7.7 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) [2] | 31 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) [2] | 1 |
| ลักษณะสภาพตัวอย่างที่วิเคราะห์ | | เหลือง ขุ่น มีตะกอน | |

หมายเหตุ : [1] Standard Methods of the examination of water and wastewater 23rd ed Washington, DC : APHA, 2017
[2] Standard Methods of the examination of water and wastewater 24th ed Washington, DC : APHA, 2023

P.Chanida

(CHANIDA PHAOPHANPLAEK)
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ว-343-จ-0002

P. Kannapat

(KANNAPAT POSUWAN)
Laboratory Supervisor
ว-343-ค-0003


ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด

บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด
ATOM-LAB ENVIRONMENTAL CO., LTD.
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Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343

# ANALYSIS REPORT

**ชื่อโครงการ** : โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2)
**ชื่อลูกค้า** : ซิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น
**ที่อยู่ลูกค้า** : 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900
**สถานีตรวจวัด** : คลองสำโรงจุดที่มีการระบายน้ำทิ้งจากการทดสอบท่อฯ
**ตำแหน่งพิกัด** : 47 P 0682278 E, 1505318 N
**เก็บตัวอย่างโดย** : นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001

**เลขที่ใบรายงานผล** : QT2511023
**รหัสตัวอย่าง** : W020/01/69
**ประเภทตัวอย่าง** : คุณภาพน้ำผิวดิน
**วันที่เก็บตัวอย่าง** : 9 มกราคม 2569
**วันที่ทดสอบ** : 9-12 มกราคม 2569
**วันที่รายงานผล** : 12 มกราคม 2569
**เวลาเก็บตัวอย่าง** : 13.38 น.
**วิธีเก็บตัวอย่าง** : Grab Sampling

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) [1] | 28.5 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 $H^+$B) [1] | 7.8 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) [2] | 33 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) [2] | 1 |
| **ลักษณะสภาพตัวอย่างที่วิเคราะห์** | | เหลือง ขุ่น มีตะกอน | |

หมายเหตุ : [1] Standard Methods of the examination of water and wastewater 23rd ed Washington, DC : APHA, 2017
[2] Standard Methods of the examination of water and wastewater 24th ed Washington, DC : APHA, 2023

(CHANIDA PHAOPHANPLAEK)
Results Analyst
ว-343-จ-0002

(KANNAPAT POSUWAN)
Laboratory Supervisor
ว-343-ค-0003

ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด


บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด
ATOM-LAB ENVIRONMENTAL CO., LTD.
สำนักงานใหญ่ : 54/110 หมู่ที่ 4 ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343

# ANALYSIS REPORT

**ชื่อโครงการ** : โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2)
**ชื่อลูกค้า** : ซิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น
**ที่อยู่ลูกค้า** : 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900
**สถานีตรวจวัด** : คลองสำโรงด้านท้ายน้ำประมาณ 100 เมตร จากจุดที่มีการระบายน้ำทิ้งจากการทดสอบท่อฯ
**ตำแหน่งพิกัด** : 47 P 0682273 E, 1505260 N
**เก็บตัวอย่างโดย** : นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001

**เลขที่ใบรายงานผล** : QT2511023
**รหัสตัวอย่าง** : W021/01/69
**ประเภทตัวอย่าง** : คุณภาพน้ำผิวดิน
**วันที่เก็บตัวอย่าง** : 9 มกราคม 2569
**วันที่ทดสอบ** : 9-12 มกราคม 2569
**วันที่รายงานผล** : 12 มกราคม 2569
**เวลาเก็บตัวอย่าง** : 13.42 น.
**วิธีเก็บตัวอย่าง** : Grab Sampling

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) [1] | 28.7 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 $H^+$B) [1] | 7.7 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) [2] | 34 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) [2] | 1 |
| **ลักษณะสภาพตัวอย่างที่วิเคราะห์** | | เหลือง ขุ่น มีตะกอน | |

หมายเหตุ : [1] Standard Methods of the examination of water and wastewater 23rd ed Washington, DC : APHA, 2017
[2] Standard Methods of the examination of water and wastewater 24th ed Washington, DC : APHA, 2023

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ว-343-ค-0003

ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด

บริษัท อะตอมแลบ เอ็นไวรอนเมนทัล จำกัด
ATOM LAB ENVIRONMENTAL CO., LTD.
สำนักงานใหญ่: 58/113 หมู่ที่ 4 ตำบลคลองหก อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office: 58/113 Moo 4, Klong 6, Klong Luang, Pathum Thani 12120
โทร. 02-909-0588 โทรสาร. 02-909-0589 E-mail: atomlabenv@gmail.com เลขประจำตัวผู้เสียภาษี 0135560002231
อีเมลล์ผู้มีอำนาจลงนามแทนได้ 1 คน
www.atomlabenvironmental.co.com

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| ชื่อโรงงาน | : โรงงานผลิตน้ำตาลทรายดิบและกากน้ำตาลจากอ้อยโรงงานน้ำตาลทรายดิบ (แห่งที่ 2) | เลขที่รับตัวอย่าง | : 67/06/0031 |
| | | รหัสตัวอย่าง | : WSB/06/67 |
| | | ประเภทตัวอย่าง | : คุณภาพน้ำดิบ |
| ที่อยู่ผู้ส่ง | : ชื่อผู้ติดต่อ ชื่อบริษัท/ชื่อหน่วยงาน ที่อยู่ เบอร์โทรศัพท์ | วันที่รับตัวอย่าง | : 26 มิถุนายน 2567 |
| ที่อยู่ผู้รับ | : 333 อาคาร เอ ชั้น 12 ห้องเลขที่ 12 ซอยเพชรบุรี 13 ถนนเพชรบุรีตัดใหม่ แขวงมักกะสัน เขตราชเทวี กรุงเทพมหานคร 10400 | วันที่ทดสอบ | : 26-29 มิถุนายน 2567 |
| | | วันที่รายงานผล | : 29 มิถุนายน 2567 |
| ลักษณะทั่วไป | : ของเหลวใส ไม่มีกลิ่น ปริมาณ 100 มิลลิลิตร ภาชนะพลาสติกสีขาวขุ่น ปิดสนิทภายนอกสมบูรณ์ | เวลาเก็บตัวอย่าง | : 09.27 น. |
| | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| ตำแหน่งที่เก็บ | : 47 P 0679003 E, 1555974 N | | |
| เก็บตัวอย่างโดย | : นายสมชาย ทองแดง เลขที่ใบรับ 1-3431-0001 | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ * | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) | 32.3 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500-H+B) | 7.8 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 D) | 38 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Partion-Gravimetric Method (part 5520 B) | 1 |
| ลักษณะการเก็บตัวอย่างที่วิเคราะห์ | | เหลือ ปริมาณ | |

หมายเหตุ * Standard Methods for the Examination of Water and Wastewater 23rd ed. (Rice/Baird/Eaton, DC: APHA, 2017)

(CHANDA PHAOPHANPLADE)
Results Analyst
1-3431-0002

(KANNAPAT POSUWAN)
Laboratory Supervisor
1-3431-0003

เอกสารฉบับนี้ใช้ประกอบสำหรับการใช้งานภายในเท่านั้น ไม่อนุญาตให้นำไปใช้ในการโฆษณาประชาสัมพันธ์ หากมีการนำไปใช้โดยมิได้รับอนุญาต


บริษัท อะตอมแลบ เอ็นไวรอนเมนทัล จำกัด
ATOM LAB ENVIRONMENTAL CO., LTD.
www.atomlabenvironmental.co.com

ANALYSIS REPORT

| | | | |
|---|---|---|---|
| ชื่อโรงงาน | : โรงงานผลิตน้ำตาลทรายดิบและกากน้ำตาลจากอ้อยโรงงานน้ำตาลทรายดิบ (แห่งที่ 2) | เลขที่รับตัวอย่าง | : 67/06/0031 |
| | | รหัสตัวอย่าง | : WSB/06/67 |
| | | ประเภทตัวอย่าง | : คุณภาพน้ำดิบ |
| ที่อยู่ผู้ส่ง | : ชื่อผู้ติดต่อ ชื่อบริษัท/ชื่อหน่วยงาน ที่อยู่ เบอร์โทรศัพท์ | วันที่รับตัวอย่าง | : 26 มิถุนายน 2567 |
| ที่อยู่ผู้รับ | : 333 อาคาร เอ ชั้น 12 ห้องเลขที่ 12 ซอยเพชรบุรี 13 ถนนเพชรบุรีตัดใหม่ แขวงมักกะสัน เขตราชเทวี กรุงเทพมหานคร 10400 | วันที่ทดสอบ | : 26-29 มิถุนายน 2567 |
| | | วันที่รายงานผล | : 29 มิถุนายน 2567 |
| ลักษณะทั่วไป | : ของเหลวใส ไม่มีกลิ่น ปริมาณ 100 มิลลิลิตร ภาชนะพลาสติกสีขาวขุ่น ปิดสนิทภายนอกสมบูรณ์ | เวลาเก็บตัวอย่าง | : 09.27 น. |
| | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| ตำแหน่งที่เก็บ | : 47 P 0679003 E, 1555974 N | | |
| เก็บตัวอย่างโดย | : นายสมชาย ทองแดง เลขที่ใบรับ 1-3431-0001 | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ * | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) | 32.3 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500-H+B) | 7.8 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 D) | 38 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Partion-Gravimetric Method (part 5520 B) | 1 |
| ลักษณะการเก็บตัวอย่างที่วิเคราะห์ | | เหลือ ปริมาณ | |

หมายเหตุ * Standard Methods for the Examination of Water and Wastewater 23rd ed. (Rice/Baird/Eaton, DC: APHA, 2017)

(CHANDA PHAOPHANPLADE)
Results Analyst
1-3431-0002

(KANNAPAT POSUWAN)
Laboratory Supervisor
1-3431-0003

เอกสารฉบับนี้ใช้ประกอบสำหรับการใช้งานภายในเท่านั้น ไม่อนุญาตให้นำไปใช้ในการโฆษณาประชาสัมพันธ์ หากมีการนำไปใช้โดยมิได้รับอนุญาต

2/1

ATOM LAB ENVIRONMENTAL CO., LTD.
Head Office: 58/19 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel: 02-000-0249 Fax: 02-000-0249 E-mail: atomlabenv@gmail.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| ชื่อโครงการ | : โครงการก่อสร้างอาคารพักอาศัยและสิ่งปลูกสร้างประกอบอื่นๆ ในที่ดินกรรมสิทธิ์ โฉนดที่ 25 | เลขที่ใบรายงานผล | : OT2606031 |
| | | รหัสตัวอย่าง | : W260606/69 |
| | | ประเภทตัวอย่าง | : คุณภาพน้ำ ผิวดิน |
| ชื่อลูกค้า | : นิมนวล ปิ่นแก้วกันยนต์ ปิ่นกลิ่นอุบล เดอะวิลล์ คลาวด์เนรัน | วันที่เก็บตัวอย่าง | : 26 มิถุนายน 2569 |
| ที่อยู่ลูกค้า | : 555 อาคาร เอา ชั้น เอาคารเอ ชั้นที่ 11 ซอยเพลินจิต 19 แขวงเพลินจิต เขตปทุมวัน กรุงเทพมหานคร 10330 | วันที่วิเคราะห์ | : 26-29 มิถุนายน 2569 |
| | | วันที่รายงานผล | : 29 มิถุนายน 2569 |
| ลักษณะอากาศ | : คลอดที่มีฝนตกหนักบางบริเวณ 100 มม/ตร.ม. | เวลาเก็บตัวอย่าง | : 09.21 น. |
| | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| ตำแหน่งที่เก็บ | : 47 P 0679536 E, 1526887 N | | |
| เก็บตัวอย่างโดย | : [illegible] | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ * | ผลการวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | ℃ | Laboratory and Field Method (part 2550 B) | 32.8 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 H+B) | 7.5 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 ℃ (part 2540 D) | 30 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Partition-Gravimetric Method (part 5520 B) | 1 |
| ห้องแลบการพิจารณาเปรียบเทียบ | | เกณฑ์ มาตรฐาน | |

หมายเหตุ : * Standard Methods for the examination of water and wastewater, 23rd ed. Washington, DC : APHA, 2017

ผู้วิเคราะห์ (CHANIDA PHAOPHANPLAEK)
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ผู้จัดการห้องปฏิบัติการ (KANNAPAT POSUWAN)
Laboratory Supervisor
1-343-m.0003

ผลวิเคราะห์นี้มีผลเฉพาะตัวอย่างที่นำมาวิเคราะห์เท่านั้น ไม่รับรองผลการวิเคราะห์ในกรณีที่นำไปอ้างอิง
ห้ามคัดลอกรายงานผลการวิเคราะห์ฉบับนี้ นอกจากจะได้รับอนุญาตเป็นลายลักษณ์อักษรจากบริษัทฯ

# ภาคผนวก ซ-2
# ผลการวิเคราะห์คุณภาพน้ำทิ้ง

# น้ำทิ้งจากการทดสอบท่อโดยวิธีชลสถิต

United Analyst and Engineering Consultant Co., Ltd.

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| PROJECT NAME | : BANGKHANG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PH 1) IN CONSTRUCTION PHASE | | |
| CUSTOMER NAME | : CPA-CPMB JOINT VENTURE | | |
| ADDRESS | : 555 RASA TOWER 1, 19TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK, CHATUCHAK BANGKOK 10900 | | |
| CONTACT INFORMATION | : TEL : (0) 891 1284 e-mail : rafong@cpp-int.com | | |
| SAMPLING SOURCE | : [illegible] | | |
| SAMPLE TYPE | : EFFLUENT | RECEIVED DATE | : JANUARY 7, 2026 |
| SAMPLING DATE | : JANUARY 7, 2026 | ANALYTICAL DATE | : JANUARY 7-8, 2026 |
| SAMPLING TIME | : 09.25 HOUR | ISSUE DATE | : JANUARY 8, 2026 |
| SAMPLING METHOD | : GRAB | REPORT NO. | : [illegible] |
| SAMPLING BY | : MR. PHAYAWAT THISAKON | WORK NO. | : [illegible] |
| ANALYZED BY | : MISS WANAPORN KHUNKHEHUN | ANALYSIS NO. | : [illegible] |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|
| pH | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H B AND 5020 | 7.4 (28.8°C) | - |
| TEMPERATURE* | °C | THERMOMETER (AT SITE) SM PART 2550 B | 28.8 | |
| TOTAL SUSPENDED SOLID* | mg/L | TOTAL ALIQUOTING SOLIDS DRIED AT 103 TO 105 °C (SM PART 2540 C) | < 5.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 5 | 5 |
| SAMPLE CONDITION | | | | |
| WATER'S COLOUR/TURBID | | | YELLOWISH BROWN | |
| SEDIMENT | | | | |

*: [illegible]
**: [illegible]

SM STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24TH EDITION, 2023.

[illegible]
[illegible]
LABORATORY SUPERVISOR

[illegible]

- End of Analysis Report -

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**บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด**
**ATOM-LAB ENVIRONMENTAL CO., LTD.**
สำนักงานใหญ่ : 54/110 หมู่ที่ 4 ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343

# ANALYSIS REPORT

| | | | | | |
|---|---|---|---|---|---|
| | | | | เลขที่ใบรายงานผล | : QT2511023 |
| ชื่อโครงการ | : | โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2) | | รหัสตัวอย่าง | : W018/01/69 |
| | | | | ประเภทตัวอย่าง | : คุณภาพน้ำทิ้ง |
| ชื่อลูกค้า | : | ซิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น | | วันที่เก็บตัวอย่าง | : 8 มกราคม 2569 |
| ที่อยู่ลูกค้า | : | 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900 | | วันที่ทดสอบ | : 8-9 มกราคม 2569 |
| | | | | วันที่รายงานผล | : 9 มกราคม 2569 |
| สถานีตรวจวัด | : | น้ำทิ้งจากกระบวนการทดสอบท่อด้วยวิธีชลสถิต (KP.42+455 – KP.42+676) | | เวลาเก็บตัวอย่าง | : 16.50 น. |
| | | | | วิธีเก็บตัวอย่าง | : Grab Sampling |
| ตำแหน่งพิกัด | : | 47 P 0682279 E, 1505373 N | | | |
| เก็บตัวอย่างโดย | : | นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001 | | | |

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ | ผลการตรวจวิเคราะห์ | ค่ามาตรฐาน [3] | ค่ามาตรฐาน [4] |
|---|---|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) [1] | 30.8 | ≤ 40 | ≤ 40 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 H+B) [1] | 7.5 | 5.5-9.0 | 6.5-8.5 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) [2] | 18 | ≤ 50 | ≤ 30 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) [2] | 1 | ≤ 5 | ≤ 5 |
| ลักษณะสภาพตัวอย่างที่วิเคราะห์ | | เหลือง ขุ่น มีตะกอน | | | |

หมายเหตุ : [1] Standard Methods of the examination of water and wastewater 23rd ed Washington, DC : APHA, 2017
[2] Standard Methods of the examination of water and wastewater 24th ed Washington, DC : APHA, 2023

ค่ามาตรฐาน : [3] Ministry of Natural Resources and Environment Announcement B.E. 2559 on the determination of standards for controlling wastewater discharge from industrial factories, industrial estates, and industrial zones.
[4] Royal Irrigation Department Order No. 18/2018 on prevention and correction of low-quality drainage into irrigation canals and waterways connected to irrigation canals in the irrigation project area

P. Chanida
(CHANIDA PHAOPHANPLAEK)
Results Analyst
ว-343-จ-0002

P. Kannapat
(KANNAPAT POSUWAN)
Laboratory Supervisor
ว-343-ค-0003

ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด

บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด
ATOM-LAB ENVIRONMENTAL CO., LTD.
สำนักงานใหญ่ : 54/110 หมู่ที่ 4 ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี 12120
Head Office : 54/110 Moo 4, Klong 4, Klong Luang, Pathum Thani 12120
Tel : 02-000-0249 Fax : 02-000-0249 E-mail : atomlabenvi@gmail.com เลขประจำตัวผู้เสียภาษี : 0135564000331
ห้องปฏิบัติการวิเคราะห์เอกชนเลขที่ ว-343

# ANALYSIS REPORT

**ชื่อโครงการ** : โครงการท่อส่งก๊าซธรรมชาติบนบกจากบางปะกงไปโรงไฟฟ้าพระนครใต้ (ระยะที่ 2)
**ชื่อลูกค้า** : ซิโนเปค อินเตอร์เนชั่นแนล ปิโตรเลียม เซอร์วิส คอร์ปอเรชั่น
**ที่อยู่ลูกค้า** : 555 อาคาร รสา วัน (อาคารเอ) ชั้นที่ 11 ซอยพหลโยธิน 19 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10900
**สถานีตรวจวัด** : น้ำทิ้งจากกระบวนการทดสอบท่อด้วยวิธีชลสถิต (KP.42+675 - KP.47+350)
**ตำแหน่งพิกัด** : 47 P 0679541 E, 1505997 N
**เก็บตัวอย่างโดย** : นายศราวุธ การะเกษ เลขทะเบียน ว-343-ค-0001

**เลขที่ใบรายงานผล** : QT2606031
**รหัสตัวอย่าง** : W087/06/68
**ประเภทตัวอย่าง** : น้ำทิ้ง
**วันที่เก็บตัวอย่าง** : 25 มิถุนายน 2569
**วันที่ทดสอบ** : 25-26 มิถุนายน 2569
**วันที่รายงานผล** : 26 มิถุนายน 2569
**เวลาเก็บตัวอย่าง** : 08.30 น.
**วิธีเก็บตัวอย่าง** : Grab Sampling

| รายการวิเคราะห์ | หน่วย | วิธีวิเคราะห์ [1)] | ผลการตรวจวิเคราะห์ |
|---|---|---|---|
| 1. อุณหภูมิ (Temperature) | °C | Laboratory and Field Method (part 2550 B) | 29.3 |
| 2. ความเป็นกรด-ด่าง (pH) | - | Electrometric Method (part 4500 $H^+$B) | 7.7 |
| 3. ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids) | mg/L | Dried at 103-105 °C (part 2540 C) | 16 |
| 4. ไขมันและน้ำมัน (Oil and Grease) | mg/L | Liquid-Liquid, Pertion-Gravimetric Method (part 5520 B) | 2 |
| **ลักษณะสภาพตัวอย่างที่วิเคราะห์** | | เหลือง ขุ่น มีตะกอน | |

หมายเหตุ : [1)] Standard Methods of the examination of water and wastewater 24th ed Washington, DC : APHA, 2023

(CHANIDA PHAOPHANPLAEK)
Results Analyst
ว-343-จ-0002

(SARAWUT GARAGED)
Laboratory Supervisor
ว-343-ค-0001

ผลวิเคราะห์นี้ได้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์และเป็นผลทดสอบตามตัวอย่างที่ได้รับเท่านั้น
ห้ามคัดลอกใบรายงานผลแต่เพียงบางส่วน โดยไม่ได้รับอนุญาตอย่างเป็นลายลักษณ์อักษรจากทางบริษัทเด็ดขาด

# ผลการวิเคราะห์คุณภาพน้ำทิ้งสำนักงาน (ระยะที่ 1)

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2761 2838 Fax 0 2761 2850 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPP-CPPR JOINT VENTURE | | |
| **ADDRESS** | : 333 KASA TOWER 1, 16TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 091 889 1594 e-mail : rattang@cpp-ek.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JANUARY 26, 2026 |
| **SAMPLING DATE** | : JANUARY 26, 2026 | **ANALYTICAL DATE** | : JANUARY 26-27, 2026 |
| **SAMPLING TIME** | : 10:30 HOUR | **ISSUE DATE** | : JANUARY 27, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-0202(T3) |
| **SAMPLING BY** | : MR. KRISSAKAPONG WAPITHIP | **WORK NO.** | : 2023-0003(3) |
| **ANALYZED BY** | : MISS. WAPAPORN KHUNKRISHUN | **ANALYSIS NO.** | : T2SAN(7)-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT<br>SITE OFFICE<br>T2SNA07E-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 4500-B | 7.2 (26.9°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 10.8 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 9.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD: UAE TP-WAS-001* (KJELDAHL METHOD) (SM PART 4500 Norg C) | 1.5 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | USUAL+GUIDE: PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION**<br>WATER'S COLOUR/TEXTURE<br>SEDIMENT | | | YELLOWISH BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Wiriyalak Sriwuk
(MISS WILAILAK SRIDUK)
LABORATORY SUPERVISOR

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Tel 0 2761 2838 Fax 0 2761 2850 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPP-CPPR JOINT VENTURE | | |
| **ADDRESS** | : 333 KASA TOWER 1, 16TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 091 889 1594 e-mail : rattang@cpp-ek.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : FEBRUARY 26, 2026 |
| **SAMPLING DATE** | : FEBRUARY 26, 2026 | **ANALYTICAL DATE** | : FEBRUARY 26 - 27, 2026 |
| **SAMPLING TIME** | : 13:30 HOUR | **ISSUE DATE** | : MARCH 4, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-0315(T3) |
| **SAMPLING BY** | : MR. PRACHOMPOL SOPHA | **WORK NO.** | : 2023-0003(3) |
| **ANALYZED BY** | : MISS. WAPAPORN KHUNKRISHUN | **ANALYSIS NO.** | : T2SAN(7)-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT<br>SITE OFFICE<br>T2NA01E3-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 4500-B | 7.3 (24.9°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 8.4 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 6.8 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD: UAE TP-WAS-001 (KJELDAHL METHOD) (SM PART 4500 Norg C) | 0.5 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | USUAL+GUIDE: PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION**<br>WATER'S COLOUR/TEXTURE<br>SEDIMENT | | | YELLOWISH BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Wiriyalak Sriwuk
(MISS WILAILAK SRIDUK)
LABORATORY SUPERVISOR

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952-735-736 17025
TESTING 0287
TESTING No. 0287

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPI-CHIYODA JOINT VENTURE | | |
| **ADDRESS** | : 333 RASA TOWER 1, 25TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 091 989 1594 e-mail : vitlang@cpi-int.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MARCH 26, 2026 |
| **SAMPLING DATE** | : MARCH 25, 2026 | **ANALYTICAL DATE** | : MARCH 26 TO, 2026 |
| **SAMPLING TIME** | : 11:11 HOUR | **ISSUE DATE** | : MARCH 31, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-U03R08 |
| **SAMPLING BY** | : MR.KONNAPUT PHITHUNKET | **WORK NO.** | : 26(3)-007788 |
| **ANALYZED BY** | : MISS.NANAPORN KHUNKONGKHAM | **ANALYSIS NO.** | : T26AP03-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT SITE OFFICE T26AP03-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT 30°C) SM PART 4500-H+ B AND 4500 B | 7.1 (33.7°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD SM PART 5210 B AND PART 4500-O G) | 7.5 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C SM PART 2540 D) | < 5.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (LAB TP-WS0301) (KJELDAHL METHOD) SM PART 4500 Norg C | 2.6 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | | |
| SEDIMENT | | | BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^ : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Wilailak Srisuk
(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

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- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
952-735-736 17025
TESTING 0287
TESTING No. 0287

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPI-CHIYODA JOINT VENTURE | | |
| **ADDRESS** | : 333 RASA TOWER 1, 25TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 091 989 1594 e-mail : vitlang@cpi-int.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : APRIL 17, 2026 |
| **SAMPLING DATE** | : APRIL 17, 2026 | **ANALYTICAL DATE** | : APRIL 17-24, 2026 |
| **SAMPLING TIME** | : 11:00 HOUR | **ISSUE DATE** | : APRIL 28, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-U03R08 |
| **SAMPLING BY** | : MR.PHACHAWPOL SOPHA | **WORK NO.** | : 26(3)-007788 |
| **ANALYZED BY** | : MISS.NANAPORN KHUNKONGKHAM | **ANALYSIS NO.** | : T26AP07-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT SITE OFFICE T26AP07-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT 30°C) SM PART 4500-H+ B AND 4500 B | 7.9 (34.0°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD SM PART 5210 B AND PART 4500-O G) | 6.4 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C SM PART 2540 D) | < 5.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (LAB TP-WS0301) (KJELDAHL METHOD) SM PART 4500 Norg C | 5.6 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/TURBID | | |
| SEDIMENT | | | BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^ : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Wilailak Srisuk
(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPP-CPPN JOINT VENTURE | | |
| **ADDRESS** | : 555 RAJA TOWER 1, 16TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL. : 081 989 2394 e-mail : sitlerng@cpp-int.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MAY 15, 2026 |
| **SAMPLING DATE** | : MAY 15, 2026 | **ANALYTICAL DATE** | : MAY 19-21, 2026 |
| **SAMPLING TIME** | : 13:45 HOUR | **ISSUE DATE** | : MAY 26, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-U043007 |
| **SAMPLING BY** | : MR. ANUSART SUAYODE | **WORK NO.** | : 2025-007758 |
| **ANALYZED BY** | : MISS. WANAPORN HYUNSEOKHUM | **ANALYSIS NO.** | : T26A0044-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26A0044-0001 | | |
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 1060 D | 7.4 (34.9°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 11.2 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 60.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | RHEOLISE METHOD (AALTP WI-00187) (KJELDAHL METHOD) (SM PART 4500-Norg C) | 10.1 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR(TURBID) | | | YELLOW-DARK BROWN | | |
| SEDIMENT | | | | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Wilailak Siriwk
(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : CPP-CPPN JOINT VENTURE | | |
| **ADDRESS** | : 555 RAJA TOWER 1, 16TH FLOOR, PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL. : 081 989 2394 e-mail : sitlerng@cpp-int.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JUNE 15, 2026 |
| **SAMPLING DATE** | : JUNE 15, 2026 | **ANALYTICAL DATE** | : JUNE 19-20, 2026 |
| **SAMPLING TIME** | : 13:33 HOUR | **ISSUE DATE** | : JUNE 30, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-U051021 |
| **SAMPLING BY** | : MR. CHOKCHAI PAIJINSAWAI | **WORK NO.** | : 2025-007758 |
| **ANALYZED BY** | : MISS WANAPORN HYUNSEOKHUM | **ANALYSIS NO.** | : T26A0812-0051 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26A0051-0001 | | |
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 1060 D | 7.4 (32.7°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 10.3 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 50.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | RHEOLISE METHOD (AALTP WI-00187) (KJELDAHL METHOD) (SM PART 4500-Norg C) | 9.1 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR(TURBID) | | | YELLOW-DARK BROWN | | |
| SEDIMENT | | | | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Wilailak Siriwk
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United Analyst and Engineering Consultant Co., Ltd.
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ASC-TIS-716 17025
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TESTING No. 0982

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : ENSPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 06 4343 6357 e-mail : Lalawanjunsri@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JANUARY 30, 2026 |
| **SAMPLING DATE** | : JANUARY 26, 2026 | **ANALYTICAL DATE** | : JANUARY 26-27, 2026 |
| **SAMPLING TIME** | : 09:00 HOUR | **ISSUE DATE** | : JANUARY 28, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-0365/01 |
| **SAMPLING BY** | : MR.PHUTTHAIPHONG BAMTHOP | **WORK NO.** | : 2601-0018/1 |
| **ANALYZED BY** | : MISS NAPAPORN KHUNNOKHUM | **ANALYSIS NO.** | : T26A0018-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT<br>SITE OFFICE<br>T26A0018-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9060 B | 6.8 (28.2°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | < 2.0 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 5.4 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (AE TP-WQ1007) (KJELDAHL METHOD) SM PART 4500-Norg C | 1.3 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 5 |
| **SAMPLE CONDITION**<br>WATER'S COLOUR/TURBID<br>SEDIMENT | | | YELLOW/TURBID<br>BROWN | | |

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* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
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TESTING No. 0982

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : ENSPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 06 4343 6357 e-mail : Lalawanjunsri@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : FEBRUARY 20, 2026 |
| **SAMPLING DATE** | : FEBRUARY 26, 2026 | **ANALYTICAL DATE** | : FEBRUARY 26-27, 2026 |
| **SAMPLING TIME** | : 09:30 HOUR | **ISSUE DATE** | : MARCH 4, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-0813/01 |
| **SAMPLING BY** | : MR.PHUTTHAIPHONG SOPHA | **WORK NO.** | : 2602-0004/01 |
| **ANALYZED BY** | : MISS NAPAPORN KHUNNOKHUM | **ANALYSIS NO.** | : T26A0253-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT<br>SITE OFFICE<br>T26A0253-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9060 B | 7.6 (28.2°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 3.0 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 6.8 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (AE TP-WQ1007) (KJELDAHL METHOD) SM PART 4500-Norg C | 8.0 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 5 |
| **SAMPLE CONDITION**<br>WATER'S COLOUR/TURBID<br>SEDIMENT | | | YELLOW/TURBID<br>BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Nuttakit Srisuk.
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TESTING No. 0003

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 08 4343 0707 e-mail : Ladawanjumpi@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MARCH 20, 2026 |
| **SAMPLING DATE** | : MARCH 20, 2026 | **ANALYTICAL DATE** | : MARCH 20-31, 2026 |
| **SAMPLING TIME** | : 09:30 HOUR | **ISSUE DATE** | : MARCH 31, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2603-I0024809 |
| **SAMPLING BY** | : MR PANCHAPOL SOPHA | **WORK NO.** | : 2603-I0121B |
| **ANALYZED BY** | : MR WATTHAWAT WORDDAM | **ANALYSIS NO.** | : T26MP09-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26MP09-0001 | | |
| pH* | - | ELECTROMETRIC METHOD (AT 30°C) SM PART 4500-H+ B AND 9060 B | 12.05 TO | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 19 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 6.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (UNLTP/WI/0101) (KJELDAHL METHOD) (SM PART 4500 Norg C) | 8.6 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 2 ** | - | 2 |
| **SAMPLE CONDITION** | | | | | |
| (WATER'S COLOUR/TURBID) | | | YELLOWISH | | |
| SEDIMENT | | | BROWN | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

Pupat S.
(MRS. PIYAPAT SUTTANAVUTWONG)
LABORATORY SUPERVISOR

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TESTING No. 0003

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 08 4343 0707 e-mail : Ladawanjumpi@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : APRIL 17, 2026 |
| **SAMPLING DATE** | : APRIL 17, 2026 | **ANALYTICAL DATE** | : APRIL 17-24, 2026 |
| **SAMPLING TIME** | : 10:30 HOUR | **ISSUE DATE** | : APRIL 28, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2604-I0111001 |
| **SAMPLING BY** | : MR PANCHAPOL SOPHA | **WORK NO.** | : 2603-I0121B |
| **ANALYZED BY** | : MR WATTHAWAT WORDDAM | **ANALYSIS NO.** | : T26MP09-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26MP09-0002 | | |
| pH* | | ELECTROMETRIC METHOD (AT 30°C) SM PART 4500-H+ B AND 9060 B | 7.4 (30.0°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | < 2.0 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | < 5.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (UNLTP/WI/0101) (KJELDAHL METHOD) (SM PART 4500 Norg C) | < 5.0 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| (WATER'S COLOUR/TURBID) | | | YELLOWISH | | |
| SEDIMENT | | | YELLOW | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

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Pupat S.
(MRS. PIYAPAT SUTTANAVUTWONG)
LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, 503 PAHOLYOTHIN 19 PAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL.: 06 4343 6707 e-mail : ladawanyuran@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MAY 15, 2026 |
| **SAMPLING DATE** | : MAY 15, 2026 | **ANALYTICAL DATE** | : MAY 15-22, 2026 |
| **SAMPLING TIME** | : 08:30 HOUR | **ISSUE DATE** | : MAY 22, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-05(0063) |
| **SAMPLING BY** | : MR.TEERAWAT SAWATCHON | **WORK NO.** | : 2026-0122(3) |
| **ANALYZED BY** | : MR.NAWTHAWAT WORASAWAN | **ANALYSIS NO.** | : T26A0129-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26A0129-0001 | | |
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9040 B | 7.4 (30°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | ND | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 4.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (AS_TP WAS 001 KJELDAHL METHOD) SM PART 4500-Norg C | 0.2 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | | |
| SEDIMENT | | | YELLOW | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Piyapol S.
(MRS PIYAPAT SUTTANAVITKONG)
LABORATORY SUPERVISOR

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TESTING No. 0982

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAMA ONE (BUILDING A), 11TH FLOOR, 503 PAHOLYOTHIN 19 PAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK, BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL.: 06 4343 6707 e-mail : ladawanyuran@gmail.com | | |
| **SAMPLING SOURCE** | : SITE OFFICE | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JUNE 19, 2026 |
| **SAMPLING DATE** | : JUNE 19, 2026 | **ANALYTICAL DATE** | : JUNE 19-26, 2026 |
| **SAMPLING TIME** | : 09:32 HOUR | **ISSUE DATE** | : JULY 3, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-07(0128) |
| **SAMPLING BY** | : MR.CHOKCHAI PHIPHOBOB | **WORK NO.** | : 2026-0122(3) |
| **ANALYZED BY** | : MR.NAWTHAWAT WORASAWAN | **ANALYSIS NO.** | : T26A0812-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| | | | SITE OFFICE T26A0812-0001 | | |
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9040 B | 7.6 (30 °C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 2.0 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL N-SUPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | < 5.0 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (AS_TP WAS 001 KJELDAHL METHOD) SM PART 4500-Norg C | < 0.5 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | | |
| SEDIMENT | | | YELLOW | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

Piyapol S.
(MRS PIYAPAT SUTTANAVITKONG)
LABORATORY SUPERVISOR

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United Analyst and Engineering Consultant Co., Ltd.
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Tel 0 2743 3939 Fax 0 2743 3807 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC-TISI-TIS 17025 TESTING 0387

TESTING No. 0387

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (BTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 MAGA ONE (BUILDING A), 11TH FLOOR, SOI PAHOLYOTHIN 24 PAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 08-4343 6707 e-mail : | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JANUARY 30, 2026 |
| **SAMPLING DATE** | : JANUARY 30, 2026 | **ANALYTICAL DATE** | : JANUARY 30-31, 2026 |
| **SAMPLING TIME** | : 11.57 HOUR | **ISSUE DATE** | : JANUARY 30, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-L655794 |
| **SAMPLING BY** | : THE CUSTOMER'S SUPPLY | **WORK NO.** | : 2023-W1973 |
| **ANALYZED BY** | : MISS NAPHORN KHUNDEHUN | **ANALYSIS NO.** | : T26A0853-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T26A0853-0002 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-H+ B AND 9040 B) | 6.2 (27.9°C) | | |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 8.1 | | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | < 5.0 | | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (AE-TP-WI-S-001) (KJELDAHL METHOD) (SM PART 4500-Norg C) | 11.1 | 1.5 | 5.0 |
| OIL AND GREASE* | mg/L | (GRAV-1-0010) PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | | 3 |
| **SAMPLE CONDITION** WATER'S COLOUR (TURBID) SEDIMENT | | | YELLOWISH BROWN | | |

* : (ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI))
** : (ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS))

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

(MISS MELALAK SEESUK)
LABORATORY SUPERVISOR

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NSC-TISI-TIS 17025 TESTING 0387

TESTING No. 0387

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (BTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 MAGA ONE (BUILDING A), 11TH FLOOR, SOI PAHOLYOTHIN 24 PAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 08-4343 6707 e-mail : | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : FEBRUARY 23, 2026 |
| **SAMPLING DATE** | : FEBRUARY 20, 2026 | **ANALYTICAL DATE** | : FEBRUARY 23-27, 2026 |
| **SAMPLING TIME** | : 11.33 HOUR | **ISSUE DATE** | : MARCH 30, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-L657047 |
| **SAMPLING BY** | : THE CUSTOMER'S SUPPLY | **WORK NO.** | : 2023-W1973 |
| **ANALYZED BY** | : MISS NAPHORN KHUNDEHUN | **ANALYSIS NO.** | : T26B0521-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T26A0853-0002 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | | ELECTROMETRIC METHOD (AT SITE) (SM PART 4500-H+ B AND 9040 B) | 6.7 (29.8°C) | | |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 10.6 | | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 13.5 | | 5.0 |
| TOTAL KJELDAHL NITROGEN** | mg/L | IN-HOUSE METHOD (AE-TP-WI-S-001) (KJELDAHL METHOD) (SM PART 4500-Norg C) | 9.03 | 1.5 | 5.0 |
| OIL AND GREASE* | mg/L | (GRAV-1-0010) PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | | 3 |
| **SAMPLE CONDITION** WATER'S COLOUR (TURBID) SEDIMENT | | | YELLOWISH BROWN | | |

* : (ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI))
** : (ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS))

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

- : SAMPLING BY CUSTOMER RECEIVED ON MARCH 5, 2026 ANALYSIS NO. T26B0521-0001 (ANALYTICAL DATE : MARCH 9-12, 2026)

THE REASON FOR ISSUING THIS NEW REPORT IS TO SUBSTITUTE RESULT OF TOTAL KJELDAHL NITROGEN
SUBSTITUTED REPORT FOR REPORT NO. 2026-L656277, ISSUE DATE MARCH 4, 2026

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LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAJA ONE (BUILDING A), 13TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 06 4243 6707 e-mail : uaebwenjopp@gmail.com | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MARCH 26, 2026 |
| **SAMPLING DATE** | : MARCH 25, 2026 | **ANALYTICAL DATE** | : MARCH 26-31, 2026 |
| **SAMPLING TIME** | : 11:11 HOUR | **ISSUE DATE** | : MAY 11, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-E07568 |
| **SAMPLING BY** | : MR.BONNAPHAT PANTHUMMET | **WORK NO.** | : 2603-012118 |
| **ANALYZED BY** | : MR.NANTHAWAT WONGSHAM | **ANALYSIS NO.** | : T26AP59-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T26AP059-0003 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT 30°C) (SM PART 4500-H+ B AND 4500 B | 6.6 (32.2°C) | | |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 2.0 | | 2.0 |
| TOTAL SUSPENDED SOLID* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 28.0 | | 3.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD UAE TP-W4(01)01 (KJELDAHL METHOD) (SM PART 4500-Norg C | 5.3 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID. | | | YELLOW/TURBID | | |
| SEDIMENT | | | MEDIUM | | |

* : (NSPEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI))

** : (ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS))

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023

* : SAMPLING BY CUSTOMER AT 10:00 HOUR ON APRIL 8, 2026, ANALYSIS NO. T26A1059-0001 | ANALYTICAL DATE : APRIL 8-15, 2026.

THE REASON FOR ISSUING THE NEW REPORT IS TO SUBSTITUTE RESULT OF BIOCHEMICAL OXYGEN DEMAND AND TOTAL KJELDAHL NITROGEN. SUBSTITUTED REPORT FOR REPORT NO. 2026-E04870, ISSUE DATE MARCH 31, 2026.

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LABORATORY SUPERVISOR

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# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 555 RAJA ONE (BUILDING A), 13TH FLOOR, SOI PHAHOLYOTHIN 19 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 06 4243 6707 e-mail : uaebwenjopp@gmail.com | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : APRIL 17, 2026 |
| **SAMPLING DATE** | : APRIL 17, 2026 | **ANALYTICAL DATE** | : APRIL 17-24, 2026 |
| **SAMPLING TIME** | : 13:29 HOUR | **ISSUE DATE** | : APRIL 28, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-E07704 |
| **SAMPLING BY** | : MR.PRAKOMPOL SOPHA | **WORK NO.** | : 2603-013119 |
| **ANALYZED BY** | : MR.NANTHAWAT WONGSHAM | **ANALYSIS NO.** | : T26AP59-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T26AP059-0003 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT 30°C) (SM PART 4500-H+ B AND 4500 B | 5.6 (32.6°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 2.1 | - | 2.0 |
| TOTAL SUSPENDED SOLID* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | < 3.0 | - | 3.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD UAE TP-W4(01)01 (KJELDAHL METHOD) (SM PART 4500-Norg C | < 5.0 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID. | | | COLORLESS/CLEAR | | |
| SEDIMENT | | | YELLOW | | |

* : (ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARD INSTITUTE (TISI))

** : (ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS))

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(MRS.PIYAPAT SUTTAWAN) PHONG
LABORATORY SUPERVISOR

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ISO 17025 TESTING 0307

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 333 NASA ONE (BUILDING 4), 11TH FLOOR, SOI PHAHOLYOTHIN 18 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 66 4343 6707 e-mail : Ladawan@sinpec@gmail.com | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : MAY 19, 2026 |
| **SAMPLING DATE** | : MAY 15, 2026 | **ANALYTICAL DATE** | : MAY 19-22, 2026 |
| **SAMPLING TIME** | : 12:40 HOUR | **ISSUE DATE** | : MAY 27, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-UM1627 |
| **SAMPLING BY** | : MR.ANUDEJ SUAYSEE | **WORK NO.** | : 2025-012118 |
| **ANALYZED BY** | : MR.NAVTHAWAT WORAKHAM | **ANALYSIS NO.** | : T2648543-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T2648543-0001 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9060 B | 8.6 (36.3°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 5.2 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 14 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (UAE TP-WW-021 KJELDAHL METHOD) (SM PART 4500-Norg C | 23.8 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR (TURBID) | | | YELLOWISH BROWN | | |
| SEDIMENT | | | | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

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ISO 17025 TESTING 0307

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : BANGPAKONG - SOUTH BANGKOK POWER PLANT TRANSMISSION PIPELINE (PTT) IN CONSTRUCTION PHASE | | |
| **CUSTOMER NAME** | : SINOPEC INTERNATIONAL PETROLEUM SERVICE CORPORATION | | |
| **ADDRESS** | : 333 NASA ONE (BUILDING 4), 11TH FLOOR, SOI PHAHOLYOTHIN 18 PHAHOLYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900 | | |
| **CONTACT INFORMATION** | : TEL : 66 4343 6707 e-mail : Ladawan@sinpec@gmail.com | | |
| **SAMPLING SOURCE** | : STOCK YARD | | |
| **SAMPLE TYPE** | : EFFLUENT | **RECEIVED DATE** | : JUNE 19, 2026 |
| **SAMPLING DATE** | : JUNE 16, 2026 | **ANALYTICAL DATE** | : JUNE 19-26, 2026 |
| **SAMPLING TIME** | : 13:35 HOUR | **ISSUE DATE** | : JULY 1, 2026 |
| **SAMPLING METHOD** | : GRAB | **REPORT NO.** | : 2026-UM1728 |
| **SAMPLING BY** | : MR.CHOKCHAI PHUMSAWAI | **WORK NO.** | : 2025-012118 |
| **ANALYZED BY** | : MR.NAVTHAWAT WORAKHAM | **ANALYSIS NO.** | : T2648863-0002 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT STOCK YARD T2648863-0002 | DETECTION LIMIT | LIMIT OF QUANTITATION (LOQ) |
|---|---|---|---|---|---|
| pH* | - | ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H+ B AND 9060 B | 7.5 (33.8°C) | - | - |
| BIOCHEMICAL OXYGEN DEMAND* | mg/L | MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G) | 7.7 | - | 2.0 |
| TOTAL SUSPENDED SOLIDS* | mg/L | TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM PART 2540 D) | 5.1 | - | 5.0 |
| TOTAL KJELDAHL NITROGEN* | mg/L | IN-HOUSE METHOD (UAE TP-WW-021 KJELDAHL METHOD) (SM PART 4500-Norg C | 15.0 | 1.0 | 5.0 |
| OIL AND GREASE* | mg/L | LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B) | < 3 | - | 3 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR (TURBID) | | | YELLOWISH BROWN | | |
| SEDIMENT | | | YELLOW | | |

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
** : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24 TH EDITION, 2023.

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# ภาคผนวก ซ-3
# เอกสารขึ้นทะเบียนห้องปฏิบัติการ

บริษัท ยูไนเต็ด แอนนาลิตส์ แอนด์
เอ็นจิเนี่ยริ่ง คอนซัลแตนท์ จำกัด

| ลำดับ | รายการทดสอบ | วิธีวิเคราะห์ |
|---|---|---|
| 1 | Alpha | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 2 | Bromine | 1) Digestion, Alkaline Decomposition Potentiometric Titration Method[1]<br>2) Digestion, Ion Chromatography Method[2] |
| 3 | Calcium | Digestion, Inductively Coupled Plasma Method[1] |
| 4 | เอ็ด-ซีบีซี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 5 | บี-ซีบีซี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 6 | ซี-ซีบีซี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 7 | ดี-ซีบีซี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 8 | Dichlorvos (Dapfon Standard) | 1) 3-Day BOD Test, Azide Modification Method[1]<br>2) 3-Day BOD Test, Membrane Electrode Method[1] |
| 9 | Cadmium | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[1] |
| 10 | Chemical Oxygen Demand | 1) Closed Reflux, Titrimetric Method[1]<br>2) Closed Reflux, Colorimetric Method[1]<br>3) Open Reflux, Titrimetric Method[1] |
| 11 | Chromium | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 12 | Chromium | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[1] |
| 13 | Color | ADMI Weighted-Ordinate, Spectrophotometric Method[1] |
| 14 | Copper | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[1] |
| 15 | Cyanide | 1) Distillation, Colorimetric Method[1]<br>2) Flow Injection, Gas Diffusion, In Flow Titration Analysis Method[1] |
| 16 | ดี-ดีดีที | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 17 | อี-ดีดีอี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 18 | อี-ดีดีที | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 19 | อี-ดีดีบี | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 20 | Dieldrin | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 21 | Endosulfan I | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 22 | Endosulfan II | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 23 | Endosulfan sulfate | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 24 | Endrin | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |

| ลำดับ | ยาฆ่าแมลง | วิธีการตรวจ |
|---|---|---|
| 12 | [illegible] | [illegible] |
| 13 | [illegible] | [illegible] |
| 14 | [illegible] | [illegible] |
| 15 | [illegible] | [illegible] |
| 16 | [illegible] | [illegible] |
| 17 | [illegible] | [illegible] |
| 18 | [illegible] | [illegible] |
| 19 | [illegible] | [illegible] |
| 20 | [illegible] | [illegible] |
| 21 | [illegible] | [illegible] |
| 22 | [illegible] | [illegible] |
| 23 | [illegible] | [illegible] |
| 24 | [illegible] | [illegible] |
| 25 | [illegible] | [illegible] |
| 26 | [illegible] | [illegible] |
| 27 | [illegible] | [illegible] |
| 28 | [illegible] | [illegible] |
| 29 | [illegible] | [illegible] |
| 30 | [illegible] | [illegible] |
| 31 | [illegible] | [illegible] |
| 32 | [illegible] | [illegible] |
| 33 | [illegible] | [illegible] |
| 34 | [illegible] | [illegible] |
| 35 | [illegible] | [illegible] |
| 36 | [illegible] | [illegible] |



| ลำดับ | ยาฆ่าแมลง | วิธีการตรวจ |
|---|---|---|
| 1 | Acetamiprid | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 2 | Acetone | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 3 | Aldrin | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 4 | Anthracene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 5 | Antimony | Digestion, Inductively Coupled Plasma Method[1] |
| 6 | Arsenic | 1) Digestion, Hydride Generation Atomic Absorption Spectrometric Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[1] |
| 7 | Atrazine | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometer Method[1] |
| 8 | Barium | Digestion, Inductively Coupled Plasma Method[1] |
| 9 | Benzo(a)anthracene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 10 | Benzene | Purge and Trap Gas Chromatographic Mass Spectrometry Method[1] |
| 11 | Benzo(b)fluoranthene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 12 | Benzo(k)fluoranthene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 13 | Benzene, para- | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometry Method[1] |





| ลำดับ | ยาฆ่าแมลง | วิธีการตรวจ |
|---|---|---|
| 14 | Benzo(a)pyrene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 15 | Benzo(g,h,i)perylene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 16 | Beryllium | Digestion, Inductively Coupled Plasma Method[1] |
| 17 | Bis(2-chloroethyl)ether | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 18 | Bis(2-chloroisopropyl)ether | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 19 | Bromodichloromethane | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 20 | Bromoform | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 21 | Bromomethane | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 22 | Cadmium | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Electrothermal Atomic Absorption Spectrometry Method[1]<br>3) Digestion, Inductively Coupled Plasma Method[1] |
| 23 | Carbofuran | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 24 | Carbon disulfide | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 25 | Carbon tetrachloride | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 26 | Chlordane | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 27 | p-Chloroaniline | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |





| ลำดับ | ยาฆ่าแมลง | วิธีการตรวจ |
|---|---|---|
| 28 | Chlorobenzene | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 29 | Chlorodibromomethane | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 30 | Chloroform | Purge and Trap Gas Chromatographic Mass Spectrometric Method[1] |
| 31 | p-Chlorophenol | Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 32 | Chromium | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[1] |
| 33 | Chromium VI | 1) Digestion, Direct Air-Acetylene Flame Method, Colorimetric Method, Extraction[1]<br>2) Digestion, Inductively Coupled Plasma Method, Colorimetric Method, Extraction[1] |
| 34 | Chromium VI | Colorimetric Method[1] |
| 35 | Chrysene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 36 | Cyanide | Distillation, Colorimetric Method[1] |
| 37 | 2,4-D | Liquid-Liquid Extraction, Gas Chromatographic Method[1] |
| 38 | DDD | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 39 | DDE | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 40 | DDT | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |
| 41 | Dibenz(a,h)anthracene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[1] |

| ลำดับ | สารเคมีที่ | วิธีการทดสอบ |
|---|---|---|
| 42 | Dimethoate (ไดเมโทเอท) | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 43 | 1,3-Dichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 44 | 1,4-Dichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 45 | 1,2-Dichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 47 | 3,4'-Dichloroaniline | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 48 | 1,1-Dichloroethene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 49 | 1,2-Dichloropropane | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 50 | 1,1-Dichloroethylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 51 | cis-1,2-Dichloroethylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 52 | trans-1,2-Dichloroethylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 53 | 2,4-Dichlorophenol | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 54 | 1,2-Dichloropropane | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 55 | 1,3-Dichloropropene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 56 | 2,6-Dichlorophenol | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 57 | Dieldrin | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 58 | Diethyl phthalate | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 59 | 2,4-Dimethylphenol | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 60 | Dimethyl phthalate | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |





| ลำดับ | สารเคมีที่ | วิธีการทดสอบ |
|---|---|---|
| 61 | 2,4-Dinitrotoluene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 62 | 2,6-Dinitrotoluene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 63 | Di-n-octyl phthalate | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 64 | Endosulfan | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 65 | Endrin | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 66 | Ethylbenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 67 | Fluoranthene | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 68 | Fluorene | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 69 | Heptachlor | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 70 | Heptachlor epoxide | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 71 | Hexachlorobenzene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 72 | Hexachloro-1,3-butadiene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 73 | n-Hexane | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |





| ลำดับ | สารเคมีที่ | วิธีการทดสอบ |
|---|---|---|
| 74 | Lead (Pb) | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 75 | Mercury (Hg) | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 76 | Nickel (Ni) | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 77 | Nitrate-Nitrogen (as N) | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 78 | Nitrite-Nitrogen (as N) | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 79 | Nitrobenzene (as N) | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 80 | Nonylphenol | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 81 | n-octyl | (1) Digestion, Direct Air-Acetylene Flame Method[1]<br>(2) Digestion, Electrothermal Atomic Absorption Spectrometric Method[1]<br>(3) Digestion, Inductively Coupled Plasma Method[1] |
| 82 | Pentachlorophenol | (1) Digestion, Direct Air-Acetylene Flame Method[1]<br>(2) Digestion, Inductively Coupled Plasma Method[1] |
| 83 | Phenol (as N) | Digestion, Cold Vapor Atomic Absorption Spectrometric Method[1] |
| 84 | Naphthalene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 85 | Nitrobenzene | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 86 | Methyl bromide | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |





| ลำดับ | สารเคมีที่ | วิธีการทดสอบ |
|---|---|---|
| 87 | Methylene chloride | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 88 | 2-Methylphenol | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 89 | 3-Methylphenol/4-Methylphenol | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 90 | Methyl tert-butyl ether | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 91 | Naphthalene | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 92 | Nickel | (1) Digestion, Direct Air-Acetylene Flame Method[1]<br>(2) Digestion, Inductively Coupled Plasma Method[1] |
| 93 | Nitrobenzene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 94 | N-Nitrosodiphenylamine | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 95 | N-Nitrosodi-n-propylamine | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 96 | Polychlorinated Biphenyls<br>- PCB-1016<br>- PCB-1221<br>- PCB-1232<br>- PCB-1242<br>- PCB-1248<br>- PCB-1254<br>- PCB-1260 | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 97 | Pentachlorophenol | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 98 | pH | Electrometric Method[1] |
| 99 | Phenanthrene | (1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>(2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |

| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 105 | Ethanol | 1) Diphenylamine, Chromotropic Acid Spectrophotometric Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[2] |
| 106 | Toluene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[2] |
| 107 | Tetrachloroethylene | 1) Diphenylamine, Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1]<br>2) Diphenylamine, Purge and Trap Gas Chromatographic/Mass Spectrometric Method[2] |
| 108 | Xylene | Diphenylamine, Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 109 | 1,2,4-Trimethylbenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 110 | Monochlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 111 | 1,4-Dichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 112 | Ethylbenzene | 1) Liquid-Liquid Extraction, Gas Chromatographic Method[1]<br>2) Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[2] |
| 113 | Styrene (Vinyl Benzene) | 1) Purge and Trap Gas Chromatographic Method[1][3]<br>2) Purge and Trap Gas Chromatographic/Mass Spectrometric Method[2][3] |
| 114 | m,p-Xylene | Diphenylamine Extraction, Liquid-Liquid Extraction, Gas Chromatographic Method[1][3] |
| 115 | o-Xylene | Diphenylamine Extraction, Liquid-Liquid Extraction, Gas Chromatographic Method[1][3] |
| 116 | 1,3,5-Trimethylbenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 117 | 1,2,4-Trichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 118 | Hexachlorobutadiene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |





| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 119 | 1,3,5-Trichlorobenzene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 120 | 1,2,4-Trichlorobenzene | Liquid-Liquid Extraction, Gas Chromatographic/Mass Spectrometric Method[1] |
| 121 | 1,2,3-Trichlorobenzene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 122 | Vanadium | Digestion, Inductively Coupled Plasma Method[1] |
| 123 | Vinyl acetate | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 124 | Vinyl chloride | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 125 | m-Xylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 126 | o-Xylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 127 | p-Xylene | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 128 | Xylenes (Total) | Purge and Trap Gas Chromatographic/Mass Spectrometric Method[1] |
| 129 | Zinc | 1) Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Digestion, Inductively Coupled Plasma Method[2] |

**การเก็บตัวอย่างและการวิเคราะห์**

| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 1 | Ammonia | Automatic Sampling, Digestion, Inductively Coupled Plasma Method[1] |
| 2 | Arsenic | 1) Automatic Sampling, Digestion, Hydride Generation Atomic Absorption Spectrometer Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 3 | Cadmium | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 4 | Carbon monoxide | Automatic Sampling and Chromatography Method[1] |
| 5 | Chlorine | Automatic Sampling and Chromatography Method[1] |
| 6 | Chromium | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1] |





| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 7 | Cobalt | Automatic Sampling, Digestion, Inductively Coupled Plasma Method[1] |
| 8 | Copper | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 9 | Lead | Absorption Sampling, Gas Chromatographic Method[1] |
| 10 | Nickel Fluoride | Automatic Sampling[1] |
| 11 | Hydrogen Chloride | Automatic Sampling and Chromatography Method[1] |
| 12 | Hydrogen Fluoride | Automatic Sampling and Chromatography Method[1] |
| 13 | Hydrogen Sulfide | Absorption Sampling, Automatic Method[1] |
| 14 | Lead | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 15 | Manganese | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 16 | Mercury | Automatic Sampling, Digestion, Chemogen Atomic Absorption Spectrometric Method[1] |
| 17 | Nickel | 1) Automatic Sampling, Digestion, Direct Air-Acetylene Flame Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 18 | Opacity | Photometric Method[1] |
| 19 | Oxides of Nitrogen | 1) Absorption Sampling, Phenoldisulfonic Acid Method[1]<br>2) Instrumental Analyzer Method[2] |
| 20 | Selenium | 1) Automatic Sampling, Digestion, Hydride Generation Atomic Absorption Spectrometric Method[1]<br>2) Automatic Sampling, Digestion, Inductively Coupled Plasma Method[2] |
| 21 | Sulfur Dioxide | 1) Automatic Sampling, Hydrogen Peroxide Titrimetric Method[1]<br>2) Instrumental Analyzer Method[2] |
| 22 | Sulfuric Acid | Automatic Sampling, Barium Titrimetric Method[1] |





| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 23 | Total Suspended Particulate | Automatic Sampling, Gravimetric Method[1] |
| 24 | Trimethylamine | Automatic Sampling, Digestion, Inductively Coupled Plasma Method[1] |
| 25 | Toluene | 1) Bag Sampling, Gas Chromatographic Method[1]<br>2) Absorption Sampling, Gas Chromatographic Method[2] |

**สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ของเสียอันตราย**

| ลำดับ | ชื่อพารามิเตอร์ | วิธีการทดสอบ |
|---|---|---|
| 1 | Aldrin | 1) Water Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[1][2][3]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[1][2][3] |
| 2 | Antimony | 1) Water Extraction, Digestion, Inductively Coupled Plasma Method[1][2][3]<br>2) Digestion, Inductively Coupled Plasma Method[1][2] |
| 3 | Arsenic | 1) Water Extraction, Digestion, Hydride Generation Atomic Absorption Spectrometric Method[1][2][3]<br>2) Water Extraction, Digestion, Inductively Coupled Plasma Method[1][2][3]<br>3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[1][2][3]<br>4) Digestion, Inductively Coupled Plasma Method[1][2][3] |
| 4 | Barium | 1) Water Extraction, Digestion, Inductively Coupled Plasma Method[1][2][3]<br>2) Digestion, Inductively Coupled Plasma Method[1][2][3] |
| 5 | Beryllium | 1) Water Extraction, Digestion, Inductively Coupled Plasma Method[1][2][3]<br>2) Digestion, Inductively Coupled Plasma Method[1][2][3] |
| 6 | Cadmium | 1) Water Extraction, Digestion, Flame Atomic Absorption Spectrometric Method[1][2][3]<br>2) Water Extraction, Digestion, Inductively Coupled Plasma Method[1][2][3]<br>3) Digestion, Flame Atomic Absorption Spectrometric Method[1][2][3]<br>4) Digestion, Inductively Coupled Plasma Method[1][2][3] |
| 7 | Chromium | 1) Water Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[1][2][3]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[1][2][3] |

| ลำดับ | ชื่อสารเคมี | วิธีตรวจวิเคราะห์ |
|---|---|---|
| 9 | Chromium | 1) Atomic Absorption, Digestion, Flame-Acetylene-Nitrous Oxide Spectrometric Method[3111 B]<br>2) Atomic Absorption, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, Flame-Acetylene Atomization Spectrometric Method[3111 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 9 | Chromium (VI) | 1) Alkaline Extraction, Digestion, Flame-Acetylene Atomization Spectrometric Method, Alkaline Extraction, Colorimetric Method, Calculation[3500-Cr D]<br>2) Atomic Absorption, Digestion, Inductively Coupled Plasma Method, Atomic Absorption, Fluorometric Method, Calculation[3500-Cr]<br>3) Digestion, Flame Acetylene Atomization Spectrometry Method, Alkaline Digestion, Colorimetric Method, Calculation[3111 B & C]<br>4) Digestion, Inductively Coupled Plasma Method, Alkaline Digestion, Colorimetric Method, Calculation[3120 B & C] |
| 10 | Chromium (VI) | 1) Atomic Absorption, Digestion[3111 B]<br>2) Alkaline Digestion, Colorimetric Method[3111 C] |
| 11 | Cobalt | 1) Atomic Absorption, Digestion, Inductively Coupled Plasma Method[3120 B]<br>2) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 12 | Copper | 1) Atomic Extraction, Digestion, Flame-Acetylene Atomization Spectrometric Method[3111 B]<br>2) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, Flame Acetylene Atomization Spectrometric Method[3111 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 13 | [illegible] | 1) [illegible] Chromatography Method[5540 C]<br>2) [illegible] and Method[illegible] |
| 14 | CCE | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |





| ลำดับ | ชื่อสารเคมี | วิธีตรวจวิเคราะห์ |
|---|---|---|
| 13 | CCE | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 14 | CFC[1] | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 17 | Dioxane | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 18 | Endrin | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 19 | Heptachlor | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 20 | Lead | 1) Atomic Extraction, Digestion, Flame-Atomic Absorption Spectrometric Method[3111 B]<br>2) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, Flame-Atomic Absorption Spectrometric Method[3111 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 21 | Lindane | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 22 | Mercury | 1) Atomic Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method[3112 B]<br>2) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, [illegible] Atomic Absorption Spectrometric Method[3112 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |





| ลำดับ | ชื่อสารเคมี | วิธีตรวจวิเคราะห์ |
|---|---|---|
| 22 | Methyl Ethyl | 2) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometer Method[3112 B] |
| 23 | Methoxychlor | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic Method[5520 C] |
| 24 | Monochlorobenzene | 1) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>2) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 25 | Phenol | 1) Atomic Extraction, Digestion, Flame-Atomic Absorption Spectrometric Method[3111 B]<br>2) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, Flame-Atomic Absorption Spectrometric Method[3111 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 26 | Polychlorinated Biphenyls<br>- Aroclor 1016<br>- Aroclor 1221<br>- Aroclor 1232<br>- Aroclor 1242<br>- Aroclor 1248<br>- Aroclor 1254<br>- Aroclor 1260<br>- 2,3,7,8-Tetrachlorodibenzo-p-dioxin<br>- 1,2,3,4,6,7,8-Heptachlorodibenzofuran<br>- 1,2,3,4,7,8,9-Heptachlorodibenzofuran<br>- 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin<br>- 1,2,3,4,7,8-Hexachlorodibenzofuran<br>- 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin<br>- 1,2,3,6,7,8-Hexachlorodibenzofuran<br>- 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin<br>- 1,2,3,7,8,9-Hexachlorodibenzofuran<br>- 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin<br>- 2,3,4,6,7,8-Hexachlorodibenzofuran<br>- 1,2,3,7,8-Pentachlorodibenzofuran<br>- 1,2,3,7,8-Pentachlorodibenzo-p-dioxin<br>- 2,3,4,7,8-Pentachlorodibenzofuran | 1) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometer Method[3112 B] |





| ลำดับ | ชื่อสารเคมี | วิธีตรวจวิเคราะห์ |
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| | Polychlorinated Biphenyls (cont.)<br>- 2,3,4,7,8-PCDF<br>- Hexachlorobenzene<br>- 2,3,7,8-TCDD<br>- Hexachlorobutadiene<br>- 2,3,7,8-TCDF<br>- Hexachlorocyclopentadiene<br>- 2,3,7,8-PeCDD<br>- Hexachloroethane<br>- 2,3,7,8-PeCDF<br>- Isophorone<br>- 2,3,7,8-HxCDD<br>- Methylchlorophenoxyacetic Acid<br>- 2,3,7,8-HxCDF<br>- Naphthalene<br>- 2,3,7,8-HpCDD<br>- Nitrobenzene<br>- 2,3,7,8-HpCDF<br>- Pentachlorophenol<br>- OCDD<br>- Phenol<br>- OCDF | |
| 27 | Pentachlorophenol | 1) Atomic Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Mass Spectrometric Method[5520 B]<br>2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[5520 C] |
| 28 | pH | Electrometric Method[4500-H+ B] |
| 29 | Selenium | 1) Atomic Extraction, Digestion, Hydride Generation Atomic Absorption Spectrometric Method[3114 B]<br>2) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>3) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[3114 B]<br>4) Digestion, Inductively Coupled Plasma Method[3120 B] |
| 30 | Silver | 1) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>2) Digestion, [illegible] Plasma Method[3120 B] |
| 31 | Thallium | 1) Atomic Extraction, Digestion, Inductively Coupled Plasma Method[3120 B]<br>2) Digestion, Inductively Coupled Plasma Method[3120 B] |

| ลำดับ | ชางผลิต | วิธีตรวจ |
|---|---|---|
| 30 | Paraquat | (1) Water Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method[๓๓๒]<br>(2) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๓] |
| 31 | Pentachlorophenol | (1) Alkaline Extraction, Acetic acid Ester Gas Chromatographic-Mass Spectrometric Method[๓๓๔]<br>(2) Alkaline Extraction, Equilibrium Headspace, Gas Chromatographic-Mass Spectrometric Method[๓๓๕]<br>(3) Purge and Trap, Gas Chromatographic-Mass Spectrometric Method[๓๓๖]<br>(4) Equilibrium Headspace, Gas Chromatographic-Mass Spectrometric Method[๓๓๗] |
| 32 | Phenothrin | (1) Hexane Extraction, Digestion, Automated Graphite Furnace Method[๓๓๘]<br>(2) Digestion, Inductively Coupled Plasma Method[๓๓๙] |
| 33 | Zinc | (1) Water Extraction, Digestion, Flame Atomic Absorption Spectrometric Method[๓๔๐]<br>(2) Alkaline Extraction, Digestion, Inductively Coupled Plasma Method[๓๔๑]<br>(3) Digestion, Flame Atomic Absorption Spectrometric Method[๓๔๒]<br>(4) Digestion, Inductively Coupled Plasma Method[๓๔๓] |

๒๖ สินค้าประเภทยา

| ลำดับ | ชางผลิต | วิธีตรวจ |
|---|---|---|
| 1 | Acetaminophen | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๔]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๔๕] |
| 2 | Ascorbic | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๔๖] |
| 3 | Aspirin | (1) [illegible] Gas Chromatographic Method[๓๔๗]<br>(2) [illegible] Chromatographic/Mass Spectrometric Method[๓๔๘] |
| 4 | Antihistamine | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๙] |





| ลำดับ | ชางผลิต | วิธีตรวจ |
|---|---|---|
| 4 | Antimonous Salts | (2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๕๐] |
| 5 | Antimony | Digestion, Inductively Coupled Plasma Method[๓๕๑] |
| 6 | Arsenic | (1) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[๓๕๒]<br>(2) Digestion, Inductively Coupled Plasma Method[๓๕๓] |
| 7 | Atrazine | Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๕๔] |
| 8 | Barium | Digestion, Inductively Coupled Plasma Method[๓๕๕] |
| 9 | Benomyl/Carbendazim | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๕๖]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๕๗] |
| 10 | Benzene | (1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๕๘]<br>(2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method[๓๕๙] |
| 11 | Benzo(b)fluoranthene | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๐]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๖๑] |
| 12 | Benzo(k)fluoranthene | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๒]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๖๓] |
| 13 | Benzo(a)pyrene | (1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๖๔] |
| 14 | Benzo(g,h,i)perylene | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๕]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๖๖] |
| 15 | Beryllium | (1) Digestion, Inductively Coupled Plasma Method[๓๖๗]<br>(2) Digestion, Flame Atomic Absorption Spectrometric Method[๓๖๘] |





| ลำดับ | ชางผลิต | วิธีตรวจ |
|---|---|---|
| 16 | Bis(2-chloroethyl)ether | (1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๗๐] |
| 17 | Bis(2-ethylhexyl)phthalate | (1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๗๑] |
| 18 | Bromodichloromethane | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๗๒] |
| 19 | Bromoform | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๗๓] |
| 20 | Bromoxynil | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๗๔] |
| 21 | Butachlor | (1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๗๕] |
| 22 | Cadmium | (1) Digestion, Flame Atomic Absorption Spectrometric Method[๓๗๖]<br>(2) Digestion, Inductively Coupled Plasma Method[๓๗๗] |
| 23 | Carbofuran | Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๗๘] |
| 24 | Carbon tetrachloride | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๗๙] |
| 25 | Carbon disulfide | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๘๐] |
| 26 | Carbon tetrachloride | (1) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๘๑]<br>(2) Equilibrium Headspace, Gas Chromatographic/Mass Spectrometric Method[๓๘๒] |
| 27 | Chlordane | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๘๓]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๘๔] |
| 28 | 4-Chloroaniline | Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๘๕] |
| 29 | Chlorobenzene | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๘๖] |
| 30 | Chlorodibromomethane | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๘๗] |
| 31 | Chloroform | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๓๘๘] |
| 32 | 2-Chloronitrile | Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๓๘๙] |





| ลำดับ | ชางผลิต | วิธีตรวจ |
|---|---|---|
| 33 | Chromium | (1) Digestion, Flame Atomic Absorption Spectrometric Method[๓๙๐]<br>(2) Digestion, Inductively Coupled Plasma Method[๓๙๑] |
| 34 | Chromium (III) | (1) Digestion, Flame Atomic Absorption Spectrometric Method, Alkaline Digestion, Colorimetric Method, Calculation[๓๙๒-๓๙๔]<br>(2) Digestion, Inductively Coupled Plasma Method, Alkaline Digestion, Colorimetric Method, Calculation[๓๙๕-๓๙๗] |
| 35 | Chromium (VI) | Alkaline Digestion, Colorimetric Method[๓๙๘] |
| 36 | Chrysene | (1) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๙]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๐๐] |
| 37 | Cyanide | Extraction, Distillation, Colorimetric Method[๔๐๑] |
| 38 | 2,4-D | Ultrasonic Extraction, Gas Chromatographic Method[๔๐๒] |
| 39 | DDD | (1) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๓]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๐๔] |
| 40 | DDE | (1) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๕]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๐๖] |
| 41 | DDT | (1) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๗]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๐๘] |
| 42 | Dibenz(a,j)acridine | (1) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๙]<br>(2) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๑๐] |
| 43 | Di-n-butyl phthalate | (1) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๔๑๑] |
| 44 | 1,2-Dichloroethane | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๔๑๒] |

| ลำดับ | ตามชนิด | วิธีตรวจวิเคราะห์ |
|---|---|---|
| ๓๐ | (๑๖) Dimoxystrobin | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๐๑] |
| ๓๑ | (๑๗) Diniconazole | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๐๑] |
| ๓๒ | (๑๘) Diniconazole-Zinc | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๐๒] |
| ๓๓ | (๑๙) Dinotefuran | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๐๓]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๐๔] |
| ๓๔ | (๒๐) Diphenylamine | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๐๕]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๐๖] |
| ๓๕ | (๒๑) Diphenyl-1,3-Dithiolane-2-Ylidene | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๐๗]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๐๘] |
| ๓๖ | (๒๒) Diphenylhydramine | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๐๙] |
| ๓๗ | (๒๓) Diphenylpyraline | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๑๐] |
| ๓๘ | (๒๔) Dipropetryn | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๑๑] |
| ๓๙ | (๒๕) Diquat | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๑๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๑๓] |
| ๔๐ | (๒๖) Disulfoton | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๑๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๑๕] |
| ๔๑ | (๒๗) Dithiocarbamate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๑๖]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๑๗] |
| ๔๒ | (๒๘) Diuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๑๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๑๙] |
| ๔๓ | (๒๙) Dodine | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๒๐]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๒๑] |
| ๔๔ | (๓๐) Emamectin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๒๒]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๒๓] |
| ๔๕ | (๓๑) Endosulfan | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๒๔]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๒๕] |
| ๔๖ | (๓๒) Endosulfan Sulfate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๒๖]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๒๗] |
| ๔๗ | (๓๓) Endrin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๒๘]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๒๙] |
| ๔๘ | (๓๔) Epoxiconazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๓๐]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๓๑] |
| ๔๙ | (๓๕) Ethalfluralin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๓๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๓๓] |
| ๕๐ | (๓๖) Ethephon | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๓๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๓๕] |
| ๕๑ | (๓๗) Ethiofencarb | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๓๖]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๓๗] |
| ๕๒ | (๓๘) Ethion | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๓๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๓๙] |
| ๕๓ | (๓๙) Ethirimol | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๔๐]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๔๑] |
| ๕๔ | (๔๐) Ethoprophos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๔๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๔๓] |
| ๕๕ | (๔๑) Etofenprox | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๔๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๔๕] |
| ๕๖ | (๔๒) Etoxazole | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๔๖]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๔๗] |
| ๕๗ | (๔๓) Etridiazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๔๘]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๔๙] |
| ๕๘ | (๔๔) Famoxadone | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๕๐]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๕๑] |
| ๕๙ | (๔๕) Fenamidone | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๕๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๕๓] |
| ๖๐ | (๔๖) Fenamiphos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๕๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๕๕] |
| ๖๑ | (๔๗) Fenarimol | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๕๖]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๕๗] |
| ๖๒ | (๔๘) Fenazaquin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๕๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๕๙] |
| ๖๓ | (๔๙) Fenbuconazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๖๐]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๖๑] |
| ๖๔ | (๕๐) Fenchlorphos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๖๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๖๓] |
| ๖๕ | (๕๑) Fenhexamid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๖๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๖๕] |
| ๖๖ | (๕๒) Fenitrothion | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๖๖]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๖๗] |
| ๖๗ | (๕๓) Fenobucarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๖๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๖๙] |
| ๖๘ | (๕๔) Fenoxanil | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๗๐]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๗๑] |
| ๖๙ | (๕๕) Fenoxaprop-Ethyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๗๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๗๓] |
| ๗๐ | (๕๖) Fenpropathrin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๗๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๗๕] |
| ๗๑ | (๕๗) Fenpropidin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๗๖]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๗๗] |
| ๗๒ | (๕๘) Fenpropimorph | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๗๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๗๙] |
| ๗๓ | (๕๙) Fenpyroximate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๘๐]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๘๑] |
| ๗๔ | (๖๐) Fenthion | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๘๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๘๓] |
| ๗๕ | (๖๑) Fenthion Sulfoxide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๘๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๘๕] |
| ๗๖ | (๖๒) Fenvalerate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๘๖]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๘๗] |
| ๗๗ | (๖๓) Ferbam | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๘๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๘๙] |





| ลำดับ | ตามชนิด | วิธีตรวจวิเคราะห์ |
|---|---|---|
| ๗๘ | (๖๔) Ferric Ammonium Citrate | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๐] |
| ๗๙ | (๖๕) Ferric Dimethyldithiocarbamate | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๑] |
| ๘๐ | (๖๖) Ferric Sodium Ethylenediaminetetraacetate | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๒] |
| ๘๑ | (๖๗) Ferrous Sulfate | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๓] |
| ๘๒ | (๖๘) Fipronil | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๔] |
| ๘๓ | (๖๙) Flonicamid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๙๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๒๙๖] |
| ๘๔ | (๗๐) Fluazifop-Butyl | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๒๙๗]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๒๙๘] |
| ๘๕ | (๗๑) Fluazinam | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๒๙๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๐๐] |
| ๘๖ | (๗๒) Fluazuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๐๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๐๒] |
| ๘๗ | (๗๓) Flubendiamide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๐๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๐๔] |
| ๘๘ | (๗๔) Flucythrinate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๐๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๐๖] |
| ๘๙ | (๗๕) Fludioxonil | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๐๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๐๘] |
| ๙๐ | (๗๖) Flufenoxuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๐๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๑๐] |
| ๙๑ | (๗๗) Flumetralin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๑๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๑๒] |
| ๙๒ | (๗๘) Flumioxazin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๑๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๑๔] |
| ๙๓ | (๗๙) Fluometuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๑๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๑๖] |
| ๙๔ | (๘๐) Fluopicolide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๑๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๑๘] |
| ๙๕ | (๘๑) Fluopyram | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๑๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๒๐] |
| ๙๖ | (๘๒) Fluoxastrobin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๒๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๒๒] |
| ๙๗ | (๘๓) Fluquinconazole | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๒๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๒๔] |
| ๙๘ | (๘๔) Flusilazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๓๒๕]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๓๒๖] |
| ๙๙ | (๘๕) Flutolanil | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๒๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๒๘] |
| ๑๐๐ | (๘๖) Flutriafol | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๓๒๙]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๓๓๐] |
| ๑๐๑ | (๘๗) Fluvalinate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๓๒] |
| ๑๐๒ | (๘๘) Folpet | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๓๔] |
| ๑๐๓ | (๘๙) Formetanate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๓๖] |
| ๑๐๔ | (๙๐) Fosetyl-Al | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๓๘] |
| ๑๐๕ | (๙๑) Furalaxyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๓๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๔๐] |
| ๑๐๖ | (๙๒) Furathiocarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๔๒] |
| ๑๐๗ | (๙๓) Gibberellic Acid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๔๔] |
| ๑๐๘ | (๙๔) Glufosinate-Ammonium | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๔๖] |
| ๑๐๙ | (๙๕) Glyphosate | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๔๘] |
| ๑๑๐ | (๙๖) Guazatine | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๔๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๕๐] |
| ๑๑๑ | (๙๗) Halofenozide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๕๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๕๒] |
| ๑๑๒ | (๙๘) Halosulfuron-Methyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๕๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๕๔] |
| ๑๑๓ | (๙๙) Haloxyfop-Methyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๕๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๕๖] |
| ๑๑๔ | (๑๐๐) Hexaconazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๓๕๗]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๓๕๘] |
| ๑๑๕ | (๑๐๑) Hexaflumuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๕๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๖๐] |
| ๑๑๖ | (๑๐๒) Hexythiazox | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๖๒] |
| ๑๑๗ | (๑๐๓) Hydramethylnon | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๖๔] |
| ๑๑๘ | (๑๐๔) Hydroprene | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๖๖] |
| ๑๑๙ | (๑๐๕) Imazalil | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๖๘] |
| ๑๒๐ | (๑๐๖) Imazamox | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๖๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๗๐] |
| ๑๒๑ | (๑๐๗) Imazapic | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๗๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๗๒] |
| ๑๒๒ | (๑๐๘) Imazapyr | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๗๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๗๔] |
| ๑๒๓ | (๑๐๙) Imazaquin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๗๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๗๖] |
| ๑๒๔ | (๑๑๐) Imazethapyr | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๗๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๗๘] |
| ๑๒๕ | (๑๑๑) Imibenconazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๓๗๙]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๓๘๐] |
| ๑๒๖ | (๑๑๒) Imidacloprid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๘๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๘๒] |
| ๑๒๗ | (๑๑๓) Indoxacarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๘๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๘๔] |
| ๑๒๘ | (๑๑๔) Iodosulfuron-Methyl-Sodium | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๘๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๘๖] |
| ๑๒๙ | (๑๑๕) Ioxynil | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๘๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๘๘] |
| ๑๓๐ | (๑๑๖) Ipconazole | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๓๘๙]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๓๙๐] |
| ๑๓๑ | (๑๑๗) Iprobenfos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๙๒] |
| ๑๓๒ | (๑๑๘) Iprodione | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๙๔] |
| ๑๓๓ | (๑๑๙) Iprovalicarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๙๖] |
| ๑๓๔ | (๑๒๐) Isazofos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๓๙๘] |
| ๑๓๕ | (๑๒๑) Isocarbophos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๓๙๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๐๐] |
| ๑๓๖ | (๑๒๒) Isofenphos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๐๒] |
| ๑๓๗ | (๑๒๓) Isofenphos-Methyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๐๔] |
| ๑๓๘ | (๑๒๔) Isoprocarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๐๖] |
| ๑๓๙ | (๑๒๕) Isoprothiolane | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๐๗]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๐๘] |
| ๑๔๐ | (๑๒๖) Isoxaben | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๐๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๑๐] |
| ๑๔๑ | (๑๒๗) Isoxaflutole | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๑๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๑๒] |
| ๑๔๒ | (๑๒๘) Kasugamycin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๑๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๑๔] |
| ๑๔๓ | (๑๒๙) Kresoxim-Methyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๑๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๑๖] |
| ๑๔๔ | (๑๓๐) Lambda-Cyhalothrin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๑๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๑๘] |
| ๑๔๕ | (๑๓๑) Lufenuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๑๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๒๐] |
| ๑๔๖ | (๑๓๒) Malathion | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๒๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๒๒] |
| ๑๔๗ | (๑๓๓) Maleic Hydrazide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๒๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๒๔] |
| ๑๔๘ | (๑๓๔) Mancozeb | (๑) Digestion, Cold Vapor Atomic Absorption Spectrometric Method[๔๒๕]<br>(๒) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method[๔๒๖] |
| ๑๔๙ | (๑๓๕) Mandipropamid | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๒๗] |
| ๑๕๐ | (๑๓๖) Mecarbam | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๒๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๒๙] |
| ๑๕๑ | (๑๓๗) Mepanipyrim | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๓๐] |
| ๑๕๒ | (๑๓๘) Mepronil | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๓๑]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๓๒] |
| ๑๕๓ | (๑๓๙) Mesotrione | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๓๓] |
| ๑๕๔ | (๑๔๐) Metalaxyl | Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๓๔] |
| ๑๕๕ | (๑๔๑) Metconazole | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๓๕] |
| ๑๕๖ | (๑๔๒) Methamidophos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๓๖]<br>(๒) Thermal Decomposition Amalgamation and Atomic Absorption Spectrometric Method[๔๓๗] |
| ๑๕๗ | (๑๔๓) Methidathion | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๓๘]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๓๙] |
| ๑๕๘ | (๑๔๔) Methiocarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๔๐]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๔๑] |
| ๑๕๙ | (๑๔๕) Methomyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๔๒]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๔๓] |
| ๑๖๐ | (๑๔๖) Methoprene | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๔๔]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๔๕] |
| ๑๖๑ | (๑๔๗) Methoxychlor | Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๔๖] |
| ๑๖๒ | (๑๔๘) Methoxyfenozide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๔๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๔๘] |
| ๑๖๓ | (๑๔๙) Metolachlor | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๔๙]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๕๐] |
| ๑๖๔ | (๑๕๐) Metolcarb | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๕๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๕๒] |
| ๑๖๕ | (๑๕๑) Metribuzin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๕๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๕๔] |
| ๑๖๖ | (๑๕๒) Metsulfuron-Methyl | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๕๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๕๖] |
| ๑๖๗ | (๑๕๓) Mevinphos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๕๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๕๘] |
| ๑๖๘ | (๑๕๔) Molinate | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๕๙]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๖๐] |
| ๑๖๙ | (๑๕๕) Monocrotophos | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๖๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๖๒] |
| ๑๗๐ | (๑๕๖) Monolinuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๖๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๖๔] |
| ๑๗๑ | (๑๕๗) Myclobutanil | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๖๕]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๖๖] |
| ๑๗๒ | (๑๕๘) Naled | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๖๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๖๘] |
| ๑๗๓ | (๑๕๙) Naphthaleneacetic Acid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๖๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๗๐] |
| ๑๗๔ | (๑๖๐) Naphthalene | (๑) Purge and Trap, Gas Chromatographic Mass Spectrometric Method[๔๗๑]<br>(๒) Liquid-Liquid Partitioning, Gas Chromatographic Mass Spectrometric Method[๔๗๒] |
| ๑๗๕ | (๑๖๑) Naphthoxyacetic Acid | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๗๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๗๔] |
| ๑๗๖ | (๑๖๒) Naproanilide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๗๕]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๗๖] |
| ๑๗๗ | (๑๖๓) Napropamide | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๗๗]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๗๘] |
| ๑๗๘ | (๑๖๔) Nicosulfuron | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๗๙]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๘๐] |
| ๑๗๙ | (๑๖๕) Nitenpyram | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๘๑]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[๔๘๒] |
| ๑๘๐ | (๑๖๖) Nitrapyrin | (๑) Ultrasonic Extraction, Gas Chromatographic Method[๔๘๓]<br>(๒) Ultrasonic Extraction, Gas Chromatographic Mass Spectrometric Method[

| ลำดับ | สารเสพติด | วิธีวิเคราะห์ |
|---|---|---|
| ๙๐ | Polychlorinated Biphenyls (PCBs) | (๑) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๓๒] |
| | Aroclor 1221 | |
| | Aroclor 1232 | |
| | Aroclor 1242 | |
| | Aroclor 1248 | |
| | Aroclor 1254 | |
| | Aroclor 1260 | (๒) Ultrasonic Extraction, Gas Chromatographic Method[๑๓๓] |
| | Polychlorinated Biphenyls (Congeners) | |
| | ๓,๓'-Dichlorobiphenyl | |
| | ๒,๔,๔'-Trichlorobiphenyl | |
| | ๒,๒',๕,๕'-Tetrachlorobiphenyl | |
| | ๒,๒',๔,๔'-Tetrachlorobiphenyl | |
| | ๒,๓',๔,๔',๕-Pentachlorobiphenyl | |
| | ๒,๓',๔,๔',๕,๕'-Hexachlorobiphenyl | |
| | ๒,๒',๓,๔,๔',๕'-Heptachlorobiphenyl | |
| | ๒,๒',๓,๓',๔,๔',๕,๕'-Octachlorobiphenyl | |
| | ๒,๒',๓,๓',๔,๔',๕,๕',๖-Nonachlorobiphenyl | |
| | ๒,๒',๓,๓',๔,๔',๕,๕',๖,๖'-Decachlorobiphenyl | |
| | ๒,๓,๓',๔,๔'-Pentachlorobiphenyl | |
| | ๒,๓',๔,๔',๕,๖-Hexachlorobiphenyl | |
| | ๒,๒',๓,๔,๔',๕,๖-Heptachlorobiphenyl | |
| | ๒,๒',๓,๓',๔,๔',๕,๖-Octachlorobiphenyl | |
| | ๒,๒',๓,๓',๔,๔',๕,๕',๖-Nonachlorobiphenyl | |





| ลำดับ | สารเสพติด | วิธีวิเคราะห์ |
|---|---|---|
| ๙๗ | Phenanthrene | (๑) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๓๒] |
| ๙๘ | Phenanthrene | (๒) Ultrasonic Extraction, Gas Chromatographic Method[๑๓๓] |
| | | (๓) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๓๔] |
| ๙๙ | Phenol | (๑) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๓๒] |
| ๑๐๐ | Phenol | (๑) (๑) Ultrasonic Extraction, Gas Chromatographic Method[๑๓๓] |
| | | (๒) Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๓๔] |
| ๑๐๑ | Selenium | (๑) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method[๑๓๕] |
| | | (๒) Digestion, Inductively Coupled Plasma Method[๑๓๖] |
| ๑๐๒ | Silver | Digestion, Inductively Coupled Plasma Method[๑๓๗] |
| ๑๐๓ | Styrene | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๐๔ | ๑,๑,๒,๒-Tetrachloroethane | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๐๕ | Tetrachloroethylene | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๐๖ | Toluene | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๐๗ | Toxaphene | Ultrasonic Extraction, Gas Chromatographic Method[๑๔๐] |
| ๑๐๘ | ๑๓๒-ไตรคลอโรเบนซีน | (๑) Purge and Trap, Gas Chromatographic Method[๑๓๘] |
| | | (๒) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๐๙ | ๑๓๔-ไตรคลอโรเบนซีน | Ultrasonic Extraction, Gas Chromatographic Method[๑๔๐] |
| ๑๑๐ | ๑๓๕-ไตรคลอโรเบนซีน | Ultrasonic Extraction, Gas Chromatographic Method[๑๔๐] |





| ลำดับ | สารเสพติด | วิธีวิเคราะห์ |
|---|---|---|
| ๑๑๑ | ๑,๑,๒-ไตรคลอโรอีเทน | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๑๒ | ๑,๑,๒-Trichloroethane | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๑๓ | ๑,๑,๒-ไตรคลอโรอีเทน | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๑๔ | ไตรคลอโรอีเทน | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๑๕ | ไตรคลอโรฟลูออโรมีเทน | Ultrasonic Extraction, Gas Chromatographic/Mass Spectrometric Method[๑๔๐] |
| ๑๑๖ | ไตรคลอโรฟลูออโรมีเทน | Ultrasonic Extraction, Gas Chromatographic Method[๑๔๐] |
| ๑๑๗ | ไตรคลอโรเอทิลีน | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๑๘ | ไตรเอทิลฟอสเฟต | Digestion, Inductively Coupled Plasma Method[๑๔๑] |
| ๑๑๙ | ไวนิลอะซิเตต | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๒๐ | ไวนิลคลอไรด์ | Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| ๑๒๑ | m-ไซลีน | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๒๒ | o-ไซลีน | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๒๓ | p-ไซลีน | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |
| ๑๒๔ | ไซลีนรวม (Total) | (๑) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method[๑๓๘] |
| | | (๒) Cryofocusing/Headspace, Gas Chromatographic/Mass Spectrometric Method[๑๓๙] |





| ลำดับ | สารเสพติด | วิธีวิเคราะห์ |
|---|---|---|
| ๑๒๕ | Zinc | (๑) Digestion, Flame Atomic Absorption Spectrometric Method[๑๔๒] |
| | | (๒) Digestion, Inductively Coupled Plasma Method[๑๔๓] |




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๓. กรมวิทยาศาสตรการแพทย์, กระทรวงสาธารณสุข, ๒๕๖๖ เรื่อง การกำหนดวิธีวิเคราะห์ยาเสพติดให้โทษในประเภทหรือชนิดของยาเสพติดให้โทษที่ต้องขึ้นทะเบียนตำรับยา, ราชกิจจานุเบกษา เล่มที่ ๑๔๐ ตอนพิเศษ ๑๓๓ ง, ๒๓ มิถุนายน ๒๕๖๖.

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บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด



ที่ อก ๐๓๐๐(๒)/ ๘๒๓

กรมโรงงานอุตสาหกรรม
ถนนพระรามที่ ๖ แขวงทุ่งพญาไท
เขตราชเทวี กรุงเทพฯ ๑๐๔๐๐

๐๓ กุมภาพันธ์ ๒๕๖๙

เรื่อง ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

เรียน กรรมการผู้จัดการ บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด

อ้างถึง คำขอขึ้นทะเบียน/ต่ออายุ/เปลี่ยนแปลงบุคลากร และขอบข่ายชนิดสารมลพิษของห้องปฏิบัติการวิเคราะห์เอกชน ลงวันที่ ๑๙ ธันวาคม ๒๕๖๘

สิ่งที่ส่งมาด้วย เอกสารแนบท้ายหนังสือรับต่ออายุขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด จำนวน ๑ แผ่น

ตามคำขอที่อ้างถึง บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด ขอต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน เลขทะเบียน ว-๑๔๓ สถานที่ตั้งเลขที่ ๕๔/๑๓๐ หมู่ที่ ๔ ตำบลคลองสี่ อำเภอคลองหลวง จังหวัดปทุมธานี ต่อกรมโรงงานอุตสาหกรรม นั้น

กรมโรงงานอุตสาหกรรมพิจารณาแล้ว ให้บริษัท บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด ต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน โดยมีองค์ประกอบดังนี้

ก. ผู้ควบคุมห้องปฏิบัติการวิเคราะห์เอกชน

๑) นายศราวุธ การะเกษ ทะเบียนเลขที่ ว-๑๔๓-ค-๐๐๐๑
๒) นางสาวสาวิณี กุณาศรี ทะเบียนเลขที่ ว-๑๔๓-ค-๐๐๐๒
๓) นางสาวกัญญ์ณพัชญ์ ไพธี่สุวรรณ ทะเบียนเลขที่ ว-๑๔๓-ค-๐๐๐๓

ข. เจ้าหน้าที่ห้องปฏิบัติการวิเคราะห์เอกชน

๑) นางสาวชนิดา เผ่าพันธุ์แปลก ทะเบียนเลขที่ ว-๑๔๓-จ-๐๐๐๒
๒) นายจักรพงษ์ วิชาวิธ์ ทะเบียนเลขที่ ว-๑๔๓-จ-๐๐๐๓

ค. ขอบข่ายชนิดสารมลพิษที่ได้รับขึ้นทะเบียนให้วิเคราะห์ในน้ำ/น้ำเสีย ตามสิ่งที่ส่งมาด้วย

หนังสือฉบับนี้จะสิ้นอายุในวันที่ ๓ มกราคม ๒๕๗๓ หากประสงค์จะต่ออายุหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน ให้ยื่นคำขอต่ออายุพร้อมเอกสารประกอบคำขอต่อกรมโรงงานอุตสาหกรรมภายใน ๖๐ วัน ก่อนวันสิ้นอายุของหนังสือรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน

จึงเรียนมาเพื่อทราบ

ขอแสดงความนับถือ

(นางสาวปัทมวรรณ คุณประเสริฐ)
ผู้อำนวยการกองวิจัยและเฝ้าระวังมลพิษจากโรงงาน
ปฏิบัติราชการแทนอธิบดีกรมโรงงานอุตสาหกรรม

กองวิจัยและเฝ้าระวังมลพิษจากโรงงาน
กลุ่มมาตรฐานวิธีการวิเคราะห์ทดสอบมลพิษและทะเบียนห้องปฏิบัติการ
โทร. 0 2430 6312 ต่อ 2103-5
โทรสาร 0 2430 6312 ต่อ 2199
ไปรษณีย์อิเล็กทรอนิกส์ sarabarn@diw.mail.go.th

เอกสารแนบท้ายหนังสือต่ออายุรับขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท อะตอม-แลบ เอ็นไวรอนเมนทัล จำกัด เลขทะเบียน ว-๓๔๓
ที่ อก ๐๓๒๐(๑)/ ๘๖๓ ลงวันที่ ๐๓ กุมภาพันธ์ ๒๕๖๙

ขอบข่ายสารมลพิษที่ได้รับขึ้นทะเบียนจากกรมโรงงานอุตสาหกรรม จำนวน ๖ รายการ

น้ำ/น้ำเสีย จำนวน 6 รายการ

| ลำดับที่ | สารมลพิษ | วิธีวิเคราะห์ |
|---|---|---|
| 1 | Oil and Grease | Liquid-Liquid, Partition-Gravimetric Method |
| 2 | pH | Electrometric Method |
| 3 | Sulfide | Iodometric Method |
| 4 | Temperature | Laboratory and Field Methods |
| 5 | Total Dissolved Solids | Dried at 180 °C |
| 6 | Total Suspended Solids | Dried from 103 to 105 °C |

เอกสารอ้างอิง

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