

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

---

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 4 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2469536-4  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Jul 17, 2024 8:40 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | Oil Interceptor  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 624    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 5 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2469536-5  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Jul 17, 2024 9:00 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | Bitumen  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 652    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 8 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2469536-8  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Jul 17, 2024 9:20 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | พชร. ออ  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 616    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2469536-6  |
| <b>Sampled Date</b>            | Jul 17, 2024 8:50 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 636    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 7 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2469536-7  |
| <b>Sampled Date</b>            | Jul 17, 2024 9:10 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. เข้า  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 608    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 4 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2481258-4  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:45 AM  |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | Oil Interceptor  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 548    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 5 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-5  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:55 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Bitumen  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | 3      | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 504    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 8 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-8  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:05 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. ออกล  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 564    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-6  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:10 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 500    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 7 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-7  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:00 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. เข้   |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 496    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 4 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2495008-4  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:50 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | Oil Interceptor  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.7    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 696    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 5 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2495008-5  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:30 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | Bitumen  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 752    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 8 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2495008-8  |
| <b>Sampled Date</b>            | Sep 05, 2024 8:10 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. ออกล  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 704    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2495008-6  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:40 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 640    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 7 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 2495008-7  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Sep 05, 2024 8:00 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | พชร. เข้า  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 760    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 4 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-4   |
| <b>Sampled Date</b>            | Oct 23, 2024 9:00 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Oil Interceptor  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 816    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 5 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-5   |
| <b>Sampled Date</b>            | Oct 23, 2024 9:20 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Bitumen  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 852    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 8 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 24107685-8   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 23, 2024 9:30 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | พร. ออ   |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 812    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0166

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-6   |
| <b>Sampled Date</b>            | Oct 23, 2024 9:10 AM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 848    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 7 of 8

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 24107685-7   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 23, 2024 9:40 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | พชร. เข้า  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 736    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 4 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-4   |
| <b>Sampled Date</b>            | Nov 19, 2024 10:00 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Oil Interceptor  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 608    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 5 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-5   |
| <b>Sampled Date</b>            | Nov 19, 2024 10:10 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Bitumen  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 652    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 8 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-8   |
| <b>Sampled Date</b>            | Nov 19, 2024 10:40 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. ออก   |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 656    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-6   |
| <b>Sampled Date</b>            | Nov 19, 2024 10:20 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 660    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 7 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-7   |
| <b>Sampled Date</b>            | Nov 19, 2024 10:30 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. เข้า  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 668    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 4 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-4   |
| <b>Sampled Date</b>            | Dec 12, 2024 11:00 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Oil Interceptor  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 564    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING

No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 5 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-5   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:55 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Bitumen  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 636    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 8 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-8   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:00 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. ออกล  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 632    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 6 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-6   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:50 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | Office   |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 560    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 7 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-7   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:10 AM  |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | พชร. เข้า  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 592    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## ภาคผนวก ค-2

---

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2469536-1  |
| <b>Sampled Date</b>            | Jul 17, 2024 8:10 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 688    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2469536-2  |
| <b>Sampled Date</b>            | Jul 17, 2024 8:20 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 656    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2469536**

Date Received : Jul 18, 2024

Date Reported : Jul 25, 2024

Report Number : 3029176-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2469536-3  |
| <b>Sampled Date</b>            | Jul 17, 2024 8:30 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Jul 18, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 644    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-1  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:25 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.7    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 1200   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | 7      | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O** : 4541288486

**Project Name** : Water Testing

**Project Location** : คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-2  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:30 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 916    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline** : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2481258**

Date Received : Aug 21, 2024

Date Reported : Aug 27, 2024

Report Number : 3056644-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2481258-3  |
| <b>Sampled Date</b>            | Aug 20, 2024 11:35 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Aug 21, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 1136   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2495008-1  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:00 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 772    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | 8      | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2495008-2  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:20 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 704    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2495008**

Date Received : Sep 06, 2024

Date Reported : Sep 12, 2024

Report Number : 3086173-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2495008-3  |
| <b>Sampled Date</b>            | Sep 05, 2024 7:10 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Sep 06, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.7    | 5.0-9.0                   | In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 672    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D   | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-1   |
| <b>Sampled Date</b>            | Oct 23, 2024 8:30 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 796    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-2   |
| <b>Sampled Date</b>            | Oct 23, 2024 8:40 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 832    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24107685**

Date Received : Oct 24, 2024

Date Reported : Oct 30, 2024

Report Number : 3114283-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24107685-3   |
| <b>Sampled Date</b>            | Oct 23, 2024 8:50 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Oct 24, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 808    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-1   |
| <b>Sampled Date</b>            | Nov 19, 2024 9:30 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 638    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-2   |
| <b>Sampled Date</b>            | Nov 19, 2024 9:40 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 8.0    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 608    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

TESTING  
No.0166

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O** : 4541288486

**Project Name** : Water Testing

**Project Location** : คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119004**

Date Received : Nov 20, 2024

Date Reported : Nov 26, 2024

Report Number : 3140228-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119004-3   |
| <b>Sampled Date</b>            | Nov 19, 2024 9:50 AM   |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Nov 20, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.9    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 616    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline** : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O** : 4541288486

**Project Name** : Water Testing

**Project Location** : คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 1 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-1   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:00 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-1  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.7    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 620    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline** : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 2 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-2   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:15 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-2  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C) *                | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 617    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0166

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4541288486

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 24119005**

Date Received : Dec 13, 2024

Date Reported : Dec 19, 2024

Report Number : 3140227-1

Page 3 of 8

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 24119005-3   |
| <b>Sampled Date</b>            | Dec 12, 2024 10:20 AM  |
| <b>Sample Description</b>      | Natural Water  |
| <b>Location</b>                | Jetty-3  |
| <b>Date Analysis Commenced</b> | Dec 13, 2024   |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|-----|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                         |      |     |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -   | 2.0       | <2.0   | ≤2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Songkhla         |
| COD  | mg/L | -   | 25        | <25    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D                  | Songkhla         |
| Oil & Grease                                 | mg/L | -   | 3         | <3     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B                  | Songkhla         |
| pH at 25 degree C                            |      | -   | -         | 7.8    | 5.0-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)            | Songkhla         |
| Total Dissolved solids Dried at 180 degree C | mg/L | -   | 5         | 618    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C                  | Songkhla         |
| Total Suspended Solids                       | mg/L | -   | 5         | <5     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D                  | Songkhla         |

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

n': Change from Natural condition not more than 3 degree C

n : Not Change from natural condition

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Ananta Boonphet  
Scientist (2)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068

ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

## ภาคผนวก ค-3

---

ผลการตรวจวัดคุณภาพอากาศอากาศในบรรยากาศ



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4543729647  
**Project Name :**  
**Project Location :** BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024  
Date Reported : Oct 26, 2024  
Report Number : 3147574-1

Page 1 of 1

**Sample Number** 24116133-1  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** BDN Gantry (GPS 47P 541328, 1013881)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit | LOD | LOQ (LOR) | Result | Method                           | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|----------------------------------|------------------|
| <b>Air Testing</b> |                     |      |     |           |        |                                  |                  |
| Total Hydrocarbon  | 12:00 PM - 08:00 PM | ppm  | -   | 1.0       | 9.1    | Total Hydrocarbon Analyzer (FID) | Bangkok          |

**Sampled By :** Apiwat Chanta

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya Chalermthamrong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4543729647

**Project Name :**

**Project Location :** BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024

Date Reported : Oct 25, 2024

Report Number : 3147574-3

Page 1 of 1

**Sample Number** 24116133-1  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** BDN Gantry (GPS 47P 541328, 1013881)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit  | LOD  | LOQ (LOR) | Result | Guideline Limit | Method                                   | Guideline | Testing Location |
|--------------------|---------------------|-------|------|-----------|--------|-----------------|--|-----------|------------------|
| <b>Air Testing</b> |                     |       |      |           |        |                 |  |           |                  |
| Benzene            | 16/10/24 - 17/10/24 | ug/m3 | 0.05 | 0.16      | 7.67   | 7.6             | Based on US EPA Compendium Method, TO-15 | PCD       | Rayong           |

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Apiwat Chanta

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by



Chonticha Subongkoch  
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4543729647  
**Project Name** :  
**Project Location** : BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024  
Date Reported : Oct 26, 2024  
Report Number : 3147575-1

Page 1 of 1

**Sample Number** 24116133-2  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** Bitumen Gantry (GPS 47P541263, 1014029)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit | LOD | LOQ (LOR) | Result | Method                           | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|----------------------------------|------------------|
| <b>Air Testing</b> |                     |      |     |           |        |                                  |                  |
| Total Hydrocarbon  | 01:00 PM - 09:00 PM | ppm  | -   | 1.0       | 5.2    | Total Hydrocarbon Analyzer (FID) | Bangkok          |

**Sampled By** : Apiwat Chanta

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya Chalermthamrong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4543729647  
**Project Name :**  
**Project Location :** BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024  
Date Reported : Oct 25, 2024  
Report Number : 3147575-3

Page 1 of 1

**Sample Number** 24116133-2  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** Bitumen Gantry (GPS 47P541263, 1014029)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit  | LOD  | LOQ (LOR) | Result | Guideline Limit | Method                                   | Guideline | Testing Location |
|--------------------|---------------------|-------|------|-----------|--------|-----------------|--|-----------|------------------|
| <b>Air Testing</b> |                     |       |      |           |        |                 |  |           |                  |
| Benzene            | 16/10/24 - 17/10/24 | ug/m3 | 0.05 | 0.16      | 4.35   | 7.6             | Based on US EPA Compendium Method, TO-15 | PCD       | Rayong           |

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Apiwat Chanta

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by



Chonticha Subongkoch  
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4543729647  
**Project Name :**  
**Project Location :** BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024  
Date Reported : Oct 26, 2024  
Report Number : 3147576-1

Page 1 of 1

**Sample Number** 24116133-3  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** Suntisuk School (GPS 47P 541556, 1013902)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit | LOD | LOQ (LOR) | Result | Method                           | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|----------------------------------|------------------|
| <b>Air Testing</b> |                     |      |     |           |        |                                  |                  |
| Total Hydrocarbon  | 02:00 PM - 10:00 PM | ppm  | -   | 1.0       | 14.4   | Total Hydrocarbon Analyzer (FID) | Bangkok          |

**Sampled By :** Apiwat Chanta

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by



Saranya Chalermthamrong  
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4543729647

**Project Name :**

**Project Location :** BDN Depot / Suratthani

**Lot ID: 24116133**

Date Received : Oct 19, 2024

Date Reported : Oct 25, 2024

Report Number : 3147576-3

Page 1 of 1

**Sample Number** 24116133-3  
**Sampled Date** Oct 16, 2024  
**Sample Description** Air Quality  
**Location** Suntisuk School (GPS 47P 541556, 1013902)  
**Date Analysis Commenced** Oct 21, 2024  
**Condition of Sample** Drawn into one 6-L Canister and one 10-L air sampling bag

| Analyte            | Sampled Date/time   | Unit  | LOD  | LOQ (LOR) | Result | Guideline Limit | Method                                   | Guideline | Testing Location |
|--------------------|---------------------|-------|------|-----------|--------|-----------------|--|-----------|------------------|
| <b>Air Testing</b> |                     |       |      |           |        |                 |  |           |                  |
| Benzene            | 16/10/24 - 17/10/24 | ug/m3 | 0.05 | 0.16      | 1.41   | 7.6             | Based on US EPA Compendium Method, TO-15 | PCD       | Rayong           |

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Apiwat Chanta

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Chonticha Subongkoch  
Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER