

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

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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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725410-1

Page 1 of 1

<b>Sample Number</b>	2374063-4
<b>Sampled Date</b>	Jul 14, 2023 1:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Oil Interceptor
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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		-	-	7.6	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	308	≤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)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725411-1

Page 1 of 1

<b>Sample Number</b>	2374063-5
<b>Sampled Date</b>	Jul 14, 2023 1:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	304	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725414-1

Page 1 of 1

<b>Sample Number</b>	2374063-8
<b>Sampled Date</b>	Jul 14, 2023 2:20 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. ออ
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	276	≤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).

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Ananta Boonphet  
Scientist (2)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725412-1

Page 1 of 1

<b>Sample Number</b>	2374063-6
<b>Sampled Date</b>	Jul 14, 2023 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	276	≤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).

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Ananta Boonphet  
Scientist (2)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725413-1

Page 1 of 1

<b>Sample Number</b>	2374063-7
<b>Sampled Date</b>	Jul 14, 2023 2:10 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. เข้
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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		-	-	7.6	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	260	≤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).

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

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<b>Sample Number</b>	2385913-4
<b>Sampled Date</b>	Aug 10, 2023 10:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Oil Interceptor
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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		-	-	7.5	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	208	≤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).

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 5 of 8

<b>Sample Number</b>	2385913-5
<b>Sampled Date</b>	Aug 10, 2023 10:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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		-	-	7.6	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	168	≤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).

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 8 of 8

<b>Sample Number</b>	2385913-8
<b>Sampled Date</b>	Aug 10, 2023 11:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. ออกล
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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		-	-	7.6	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	188	≤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	9	≤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 :

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 6 of 8

<b>Sample Number</b>	2385913-6
<b>Sampled Date</b>	Aug 10, 2023 10:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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		-	-	7.6	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	200	≤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 :

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 7 of 8

<b>Sample Number</b>	2385913-7
<b>Sampled Date</b>	Aug 10, 2023 11:10 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. เข้า
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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		-	-	7.6	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	188	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 4 of 8

<b>Sample Number</b>	2399193-4
<b>Sampled Date</b>	Sep 13, 2023 1:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Oil Interceptor
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.4	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	176	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 5 of 8

<b>Sample Number</b>	2399193-5
<b>Sampled Date</b>	Sep 13, 2023 1:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.4	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	204	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 8 of 8

<b>Sample Number</b>	2399193-8
<b>Sampled Date</b>	Sep 13, 2023 2:10 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. ออกล
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.6	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	184	≤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).

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Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 6 of 8

<b>Sample Number</b>	2399193-6
<b>Sampled Date</b>	Sep 13, 2023 1:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.5	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	196	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 7 of 8

<b>Sample Number</b>	2399193-7
<b>Sampled Date</b>	Sep 13, 2023 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. เข้า
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.5	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	192	≤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).

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Ananta Boonphet  
Scientist (2)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 4 of 8

<b>Sample Number</b>	23111733-4
<b>Sampled Date</b>	Oct 05, 2023 1:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Oil Interceptor
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	164	≤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)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 5 of 8

<b>Sample Number</b>	23111733-5
<b>Sampled Date</b>	Oct 05, 2023 1:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	132	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 8 of 8

<b>Sample Number</b>	23111733-8
<b>Sampled Date</b>	Oct 05, 2023 12:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. ออกล
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	160	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 6 of 8

<b>Sample Number</b>	23111733-6
<b>Sampled Date</b>	Oct 05, 2023 1:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	160	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 7 of 8

<b>Sample Number</b>	23111733-7
<b>Sampled Date</b>	Oct 05, 2023 12:40 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. เข้า
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	152	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

**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 4 of 8

<b>Sample Number</b>	23119399-4
<b>Sampled Date</b>	Nov 09, 2023 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Oil Interceptor
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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		-	-	7.5	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	320	≤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).

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Approved by

Ananta Boonphet  
Scientist (2)

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## 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: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

Page 5 of 8

<b>Sample Number</b>	23119399-5
<b>Sampled Date</b>	Nov 09, 2023 8:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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		-	-	7.4	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	468	≤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).

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Approved by

Ananta Boonphet  
Scientist (2)

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## 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: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

Page 8 of 8

<b>Sample Number</b>	23119399-8
<b>Sampled Date</b>	Nov 09, 2023 9:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. ออ
<b>Date Analysis Commenced</b>	Nov 10, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

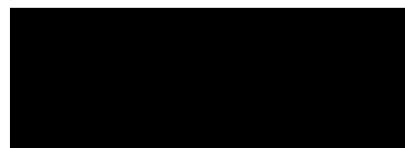
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
COD	mg/L	-	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		-	-	7.5	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	356	≤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).

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

**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>	23119399-6
<b>Sampled Date</b>	Nov 09, 2023 8:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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		-	-	7.6	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	404	≤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 :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

Page 7 of 8

<b>Sample Number</b>	23119399-7						
<b>Sampled Date</b>	Nov 09, 2023 9:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	พชร. เข้า						
<b>Date Analysis Commenced</b>	Nov 10, 2023						
<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		-	-	7.5	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	336	≤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).

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 4 of 8

<b>Sample Number</b>	23131042-4						
<b>Sampled Date</b>	Dec 12, 2023 1:10 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	Oil Interceptor						
<b>Date Analysis Commenced</b>	Dec 13, 2023						
<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	1264	≤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).

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Ananta Boonphet  
Scientist (2)

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 5 of 8

<b>Sample Number</b>	23131042-5
<b>Sampled Date</b>	Dec 12, 2023 1:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Bitumen
<b>Date Analysis Commenced</b>	Dec 13, 2023
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

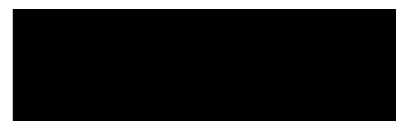
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
COD	mg/L	-	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	1220	≤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	7	≤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).

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 8 of 8

<b>Sample Number</b>	23131042-8						
<b>Sampled Date</b>	Dec 12, 2023 1:40 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	พชร. ออ						
<b>Date Analysis Commenced</b>	Dec 13, 2023						
<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	1144	≤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	6	≤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).

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Scientist (2)

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 6 of 8

<b>Sample Number</b>	23131042-6
<b>Sampled Date</b>	Dec 12, 2023 1:20 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	Office
<b>Date Analysis Commenced</b>	Dec 13, 2023
<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	1152	≤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).

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Ananta Boonphet  
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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 7 of 8

<b>Sample Number</b>	23131042-7
<b>Sampled Date</b>	Dec 12, 2023 1:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	พชร. เข้า
<b>Date Analysis Commenced</b>	Dec 13, 2023
<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	1244	≤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).

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## ภาคผนวก ค-2

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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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725407-1

Page 1 of 1

<b>Sample Number</b>	2374063-1
<b>Sampled Date</b>	Jul 14, 2023 1:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	26	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		-	-	7.3	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	7240	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	13	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725408-1

Page 1 of 1

<b>Sample Number</b>	2374063-2
<b>Sampled Date</b>	Jul 14, 2023 1:20 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	42	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		-	-	7.3	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	7100	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	13	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)

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Approved by

Ananta Boonphet  
Scientist (2)

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## 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: 2374063**

Date Received : Jul 15, 2023

Date Reported : Jul 31, 2023

Report Number : 2725409-1

Page 1 of 1

<b>Sample Number</b>	2374063-3
<b>Sampled Date</b>	Jul 14, 2023 1:30 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Jul 15, 2023
<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	32	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		-	-	7.4	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	7060	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	15	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 1 of 8

<b>Sample Number</b>	2385913-1
<b>Sampled Date</b>	Aug 10, 2023 10:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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	55	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		-	-	7.5	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	10640	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	25	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 2 of 8

<b>Sample Number</b>	2385913-2
<b>Sampled Date</b>	Aug 10, 2023 10:10 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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	57	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		-	-	7.4	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	10280	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	20	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING  
No.0166

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

**P/O :**

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์ต่างจังหวัดบ้านดอน สุราษฎร์ธานี

**Lot ID: 2385913**

Date Received : Aug 12, 2023

Date Reported : Aug 19, 2023

Report Number : 2725936-1

Page 3 of 8

<b>Sample Number</b>	2385913-3
<b>Sampled Date</b>	Aug 10, 2023 10:20 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Aug 12, 2023
<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	52	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		-	-	7.4	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	10400	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	24	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

**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 1 of 8

<b>Sample Number</b>	2399193-1
<b>Sampled Date</b>	Sep 13, 2023 1:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.4	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	3700	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	19	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 2 of 8

<b>Sample Number</b>	2399193-2
<b>Sampled Date</b>	Sep 13, 2023 1:10 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.3	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	3560	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	17	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 2399193**

Date Received : Sep 14, 2023

Date Reported : Sep 20, 2023

Report Number : 2755149-1

Page 3 of 8

<b>Sample Number</b>	2399193-3
<b>Sampled Date</b>	Sep 13, 2023 1:20 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Sep 14, 2023
<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		-	-	7.3	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	3920	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	17	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

**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 1 of 8

<b>Sample Number</b>	23111733-1
<b>Sampled Date</b>	Oct 05, 2023 1:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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	3860	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	29	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

**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 2 of 8

<b>Sample Number</b>	23111733-2
<b>Sampled Date</b>	Oct 05, 2023 1:10 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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		-	-	7.6	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	4380	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	38	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

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Ananta Boonphet  
Scientist (2)

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## 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: 23111733**

Date Received : Oct 06, 2023

Date Reported : Oct 12, 2023

Report Number : 2787285-1

Page 3 of 8

<b>Sample Number</b>	23111733-3
<b>Sampled Date</b>	Oct 05, 2023 1:20 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Oct 06, 2023
<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		-	-	7.6	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	3440	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	34	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

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Ananta Boonphet  
Scientist (2)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

**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 1 of 8

<b>Sample Number</b>	23119399-1
<b>Sampled Date</b>	Nov 09, 2023 8:00 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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	30	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		-	-	7.3	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	3820	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	46	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)

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Approved by



Ananta Boonphet  
Scientist (2)

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## 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: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

Page 2 of 8

<b>Sample Number</b>	23119399-2
<b>Sampled Date</b>	Nov 09, 2023 8:10 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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	33	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		-	-	7.4	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	3720	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	48	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)

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Ananta Boonphet  
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## 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: 23119399**

Date Received : Nov 10, 2023

Date Reported : Nov 16, 2023

Report Number : 2830883-1

Page 3 of 8

<b>Sample Number</b>	23119399-3
<b>Sampled Date</b>	Nov 09, 2023 8:20 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Nov 10, 2023
<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	28	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		-	-	7.2	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	3640	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	43	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)

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 1 of 8

<b>Sample Number</b>	23131042-1
<b>Sampled Date</b>	Dec 12, 2023 12:30 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-1
<b>Date Analysis Commenced</b>	Dec 13, 2023
<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		-	-	7.5	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	2400	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	26	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)

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## Analysis / Test Report

TESTING

No.0166

**Lot ID: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

**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 2 of 8

<b>Sample Number</b>	23131042-2
<b>Sampled Date</b>	Dec 12, 2023 12:40 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-2
<b>Date Analysis Commenced</b>	Dec 13, 2023
<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		-	-	7.5	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	2320	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	27	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)

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Approved by

Ananta Boonphet  
Scientist (2)

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## 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: 23131042**

Date Received : Dec 13, 2023

Date Reported : Dec 19, 2023

Report Number : 2830887-1

Page 3 of 8

<b>Sample Number</b>	23131042-3
<b>Sampled Date</b>	Dec 12, 2023 12:50 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	Jetty-3
<b>Date Analysis Commenced</b>	Dec 13, 2023
<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		-	-	7.4	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	1880	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	30	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)

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Approved by

Ananta Boonphet  
Scientist (2)

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## ภาคผนวก ค-3

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ผลการตรวจวัดคุณภาพอากาศอากาศในบรรยากาศ



## Analysis / Test Report

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

**P/O :** 4541301134

**Project Name :**

**Project Location :** BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023

Date Reported : Oct 24, 2023

Report Number : 2812372-2

Page 1 of 1

**Sample Number** 23117420-1  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** BDN Gantry  
**Date Analysis Commenced** Oct 17, 2023  
**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	10/10/23 - 11/10/23	ug/m3	0.05	0.16	32.97	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 :** Woravut Deenuk

**Remark :**

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

Approved by



Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : The Shell Company of Thailand Limited  
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O** : 4541301134  
**Project Name** :  
**Project Location** : BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023  
Date Reported : Oct 24, 2023  
Report Number : 2812372-3

Page 1 of 1

**Sample Number** 23117420-1  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** BDN Gantry  
**Date Analysis Commenced** Oct 17, 2023  
**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	10:00 AM - 06:00 PM	ppm	-	1.0	10.2	Total Hydrocarbon Analyzer (FID)	Bangkok

**Sampled By** : Woravut Deenuk

Remark :

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Approved by

Tanyatorn Mongkonjirawut  
Supervisor

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**P/O :** 4541301134  
**Project Name :**  
**Project Location :** BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023

Date Reported : Oct 24, 2023

Report Number : 2812373-2

Page 1 of 1

**Sample Number** 23117420-2  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** Bitumen Gantry  
**Date Analysis Commenced** Oct 17, 2023  
**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	10/10/23 - 11/10/23	ug/m3	0.05	0.16	1.28	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 :** Woravut Deenuk

**Remark :**

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Senior Manager

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**P/O** : 4541301134  
**Project Name** :  
**Project Location** : BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023  
Date Reported : Oct 24, 2023  
Report Number : 2812373-3

Page 1 of 1

**Sample Number** 23117420-2  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** Bitumen Gantry  
**Date Analysis Commenced** Oct 17, 2023  
**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	09:00 AM - 05:00 PM	ppm	-	1.0	5.9	Total Hydrocarbon Analyzer (FID)	Bangkok

**Sampled By** : Woravut Deenuk

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Supervisor

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110  
**P/O :** 4541301134  
**Project Name :**  
**Project Location :** BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023  
Date Reported : Oct 24, 2023  
Report Number : 2812374-2

Page 1 of 1

**Sample Number** 23117420-3  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** Suntisuk School  
**Date Analysis Commenced** Oct 17, 2023  
**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	10/10/23 - 11/10/23	ug/m3	0.05	0.16	1.09	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 :** Woravut Deenuk

**Remark :**

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Approved by



Dej Changchon  
Senior Manager

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**P/O** : 4541301134  
**Project Name** :  
**Project Location** : BDN Depot / Suratthani

**Lot ID: 23117420**

Date Received : Oct 13, 2023  
Date Reported : Oct 24, 2023  
Report Number : 2812374-3

Page 1 of 1

**Sample Number** 23117420-3  
**Sampled Date** Oct 10, 2023  
**Sample Description** Air Quality  
**Location** Suntisuk School  
**Date Analysis Commenced** Oct 17, 2023  
**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	11:00 AM - 07:00 PM	ppm	-	1.0	6.6	Total Hydrocarbon Analyzer (FID)	Bangkok

**Sampled By** : Woravut Deenuk

Remark :

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