

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053456-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-1						
Sampled Date	Jul 05, 2024 7:40 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	112	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053456-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-1						
Sampled Date	Jul 05, 2024 7:40 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053457-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-2						
Sampled Date	Jul 05, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053457-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-2						
Sampled Date	Jul 05, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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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Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053458-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-3						
Sampled Date	Jul 05, 2024 7:30 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	284	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053458-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-3						
Sampled Date	Jul 05, 2024 7:30 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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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Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083033-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-1						
Sampled Date	Aug 07, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	180	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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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Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083033-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-1						
Sampled Date	Aug 07, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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



Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083034-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-2						
Sampled Date	Aug 07, 2024 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	124	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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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Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083034-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-2						
Sampled Date	Aug 07, 2024 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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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Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083035-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-3						
Sampled Date	Aug 07, 2024 8:20 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	212	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083035-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-3						
Sampled Date	Aug 07, 2024 8:20 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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



Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114938-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-1						
Sampled Date	Sep 11, 2024 8:20 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	116	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114938-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-1						
Sampled Date	Sep 11, 2024 8:20 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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



Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114939-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-2						
Sampled Date	Sep 11, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.2	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	108	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114939-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-2
Sampled Date	Sep 11, 2024 8:10 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Sep 12, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114940-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-3						
Sampled Date	Sep 11, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
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	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 18, 2024

Report Number : 3114940-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-3						
Sampled Date	Sep 11, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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



Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139835-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-1
Sampled Date	Oct 09, 2024 8:20 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	116	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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



Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139835-2

Page 1 of 1

Sample Number	24102152-1						
Sampled Date	Oct 09, 2024 8:20 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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
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Approved by



Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139836-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-2						
Sampled Date	Oct 09, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	108	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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



Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139836-2

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-2						
Sampled Date	Oct 09, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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

Sawitree Noisangiam
Manager

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139837-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-3						
Sampled Date	Oct 09, 2024 7:40 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
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, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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



Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139837-2

Page 1 of 1

Sample Number	24102152-3						
Sampled Date	Oct 09, 2024 7:40 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Oct 10, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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



Sawitree Noisangiam
Manager

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Analysis / Test Report

Client : The Shell Company of Thailand Limited
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110
P/O : 4541289881
Project Name : Water Testing
Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING
No.0009
Lot ID: 24115574
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3164407-1

Page 1 of 1

Sample Number	24115574-1
Sampled Date	Nov 06, 2024 8:30 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Nov 07, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	124	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164407-2

Page 1 of 1

Sample Number	24115574-1						
Sampled Date	Nov 06, 2024 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management



Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164408-1

Page 1 of 1

Sample Number	24115574-2						
Sampled Date	Nov 06, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	148	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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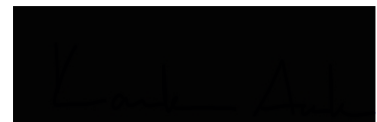
Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164408-2

Page 1 of 1

Sample Number	24115574-2						
Sampled Date	Nov 06, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management



Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

Client : The Shell Company of Thailand Limited
10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110
P/O : 4541289881
Project Name : Water Testing
Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING
No.0009
Lot ID: 24115574
Date Received : Nov 06, 2024
Date Reported : Nov 13, 2024
Report Number : 3164409-1

Page 1 of 1

Sample Number	24115574-3
Sampled Date	Nov 06, 2024 8:00 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Nov 07, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	212	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164409-2

Page 1 of 1

Sample Number	24115574-3						
Sampled Date	Nov 06, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management



Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192770-1

Page 1 of 1

Sample Number	24126622-1
Sampled Date	Dec 06, 2024 7:30 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Dec 07, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	116	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192770-2

Page 1 of 1

Sample Number	24126622-1						
Sampled Date	Dec 06, 2024 7:30 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Dec 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management


Sawitree Noisangiam
Manager
ทะเบียนเลขที่ ว-204-จ-0007

Approved by


Kanokkorn Anek
Assistant General Manager
ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192771-1

Page 1 of 1

Sample Number	24126622-2
Sampled Date	Dec 06, 2024 8:00 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Dec 07, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	148	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192771-2

Page 1 of 1

Sample Number	24126622-2						
Sampled Date	Dec 06, 2024 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Dec 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management



Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192772-1

Page 1 of 1

Sample Number	24126622-3						
Sampled Date	Dec 06, 2024 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Dec 07, 2024						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	≤120	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	396	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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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Technical Management



Siriluk Bunnak
Section Head

ทะเบียนเลขที่ ว-204-จ-0013

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192772-2

Page 1 of 1

Sample Number	24126622-3
Sampled Date	Dec 06, 2024 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Dec 07, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok

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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Technical Management



Sawitree Noisangiam
Manager

ทะเบียนเลขที่ ว-204-จ-0007

Approved by



Kanokkorn Anek
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-0004

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ภาคผนวก ค-2

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053459-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-4
Sampled Date	Jul 05, 2024 5:00 PM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Jul 06, 2024
Condition of Sample	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
Water Testing							
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	Bangkok
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	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	4080	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	38	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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)
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Approved by



Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2465563

Date Received : Jul 05, 2024

Date Reported : Jul 12, 2024

Report Number : 3053460-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2465563-5						
Sampled Date	Jul 05, 2024 7:00 AM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Jul 06, 2024						
Condition of Sample	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
Water Testing							
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	Bangkok
COD *	mg/L	-	25	29	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	5580	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	43	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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 :

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Approved by



Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083036-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-4						
Sampled Date	Aug 06, 2024 4:30 PM						
Sample Description	Natural Water						
Location	น้ำขึ้นหน้าท่า						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	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
Water Testing							
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	Bangkok
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	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	436	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2476065

Date Received : Aug 07, 2024

Date Reported : Aug 15, 2024

Report Number : 3083037-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2476065-5						
Sampled Date	Aug 07, 2024 7:50 AM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Aug 08, 2024						
Condition of Sample	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
Water Testing							
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	Bangkok
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	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
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	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	24	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

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Approved by

Siriluk Bunnak
Section Head

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

Life Sciences

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 19, 2024

Report Number : 3114941-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-4						
Sampled Date	Sep 11, 2024 5:00 PM						
Sample Description	Natural Water						
Location	น้ำขึ้นหน้าท่า						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	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
Water Testing							
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	Bangkok
COD *	mg/L	-	25	66	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7340	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	15	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2489307

Date Received : Sep 11, 2024

Date Reported : Sep 19, 2024

Report Number : 3114942-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	2489307-5						
Sampled Date	Sep 11, 2024 7:30 AM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Sep 12, 2024						
Condition of Sample	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
Water Testing							
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	Bangkok
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	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	236	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	14	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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



Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139838-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-4
Sampled Date	Oct 09, 2024 8:00 AM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Oct 09, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	<25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	580	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	53	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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



Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24102152

Date Received : Oct 09, 2024

Date Reported : Oct 17, 2024

Report Number : 3139839-1

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

Sample Number	24102152-5						
Sampled Date	Oct 09, 2024						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Oct 09, 2024						
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD	mg/L	-	25	56	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	8940	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Approved by



Nanthawadee Somboon
Specialist 2

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164410-1

Page 1 of 1

Sample Number	24115574-4						
Sampled Date	Nov 06, 2024 7:40 AM						
Sample Description	Natural Water						
Location	น้ำขึ้นหน้าท่า						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	46	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7580	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Approved by



Siriluk Bunnak
Section Head

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Analysis / Test Report

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

P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24115574

Date Received : Nov 06, 2024

Date Reported : Nov 13, 2024

Report Number : 3164411-1

Page 1 of 1

Sample Number	24115574-5						
Sampled Date	Nov 06, 2024 4:00 PM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Nov 07, 2024						
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	68	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	13500	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192773-1

Page 1 of 1

Sample Number	24126622-4						
Sampled Date	Dec 06, 2024 7:50 AM						
Sample Description	Natural Water						
Location	น้ำขึ้นหน้าท่า						
Date Analysis Commenced	Dec 07, 2024						
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	42	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9640	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Analysis / Test Report

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

P/O :

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 24126622

Date Received : Dec 06, 2024

Date Reported : Dec 13, 2024

Report Number : 3192774-1

Page 1 of 1

Sample Number	24126622-5						
Sampled Date	Dec 06, 2024 4:00 PM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Dec 07, 2024						
Condition of Sample	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
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.5	≤2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
COD *	mg/L	-	25	246	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	20540	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Siriluk Bunnak
Section Head

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