

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716629-1

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	2358407-1
Sampled Date	Jul 06, 2023 8:00 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Jul 07, 2023
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	336	≤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)
- 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 Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716629-2

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	2358407-1						
Sampled Date	Jul 06, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Jul 07, 2023						
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	0.0010	≤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: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716630-1

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	2358407-2
Sampled Date	Jul 06, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Jul 07, 2023
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		-	-	7.8	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	336	≤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 Puengpang
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Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716630-2

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	2358407-2						
Sampled Date	Jul 06, 2023 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Jul 07, 2023						
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	0.0009	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716631-1

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	2358407-3
Sampled Date	Jul 06, 2023 8:30 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Jul 07, 2023
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		-	-	7.6	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	424	≤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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Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716631-2

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	2358407-3						
Sampled Date	Jul 06, 2023 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Jul 07, 2023						
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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749673-1

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	2374060-1
Sampled Date	Aug 10, 2023 7:40 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Aug 11, 2023
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		-	-	7.8	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	164	≤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 Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749673-2

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	2374060-1						
Sampled Date	Aug 10, 2023 7:40 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Aug 11, 2023						
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	0.0007	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749674-1

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	2374060-2						
Sampled Date	Aug 10, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Aug 11, 2023						
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		-	-	7.9	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	676	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749674-2

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	2374060-2						
Sampled Date	Aug 10, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Aug 11, 2023						
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	0.0008	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749675-1

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	2374060-3
Sampled Date	Aug 10, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Aug 11, 2023
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		-	-	7.8	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	520	≤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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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by



Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749675-2

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	2374060-3
Sampled Date	Aug 10, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Aug 11, 2023
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	0.0007	≤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: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777030-1

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	2385911-1
Sampled Date	Sep 07, 2023 8:00 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Sep 08, 2023
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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	200	≤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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Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777030-2

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	2385911-1						
Sampled Date	Sep 07, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Sep 08, 2023						
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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	0.0008	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777031-1

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	2385911-2						
Sampled Date	Sep 07, 2023 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Sep 08, 2023						
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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	240	≤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 Puengpang
Section Head

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Analysis / Test Report

TESTING
No.0009

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

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777031-2

Page 1 of 1

Sample Number	2385911-2						
Sampled Date	Sep 07, 2023 8:30 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Sep 08, 2023						
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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	0.0009	≤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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777032-1

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	2385911-3
Sampled Date	Sep 07, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Sep 08, 2023
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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	280	≤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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Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777032-2

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	2385911-3
Sampled Date	Sep 07, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Sep 08, 2023
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, 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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Analysis / Test Report

TESTING

No.0009

Lot ID: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806115-1

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 2

Sample Number	2399192-1
Sampled Date	Oct 06, 2023 7:30 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Oct 07, 2023
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
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	196	≤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



Chanattagarn Imchom
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: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806115-1

Page 2 of 2

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806116-1

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 2

Sample Number	2399192-2
Sampled Date	Oct 06, 2023 8:00 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Oct 07, 2023
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
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	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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Chanattagarn Imchom
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: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806116-1

Page 2 of 2

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

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Chanattagarn Imchom
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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: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806117-1

Page 1 of 2

Sample Number	2399192-3
Sampled Date	Oct 06, 2023 8:15 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Oct 07, 2023
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	0.0008	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
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	232	≤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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Chanattagarn Imchom
Section Head



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: 2399192
Date Received : Oct 06, 2023
Date Reported : Oct 14, 2023
Report Number : 2806117-1

Page 2 of 2

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

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Chanattagarn Imchom
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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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836182-1

Page 1 of 1

Sample Number	23116881-1						
Sampled Date	Nov 08, 2023 7:50 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Nov 09, 2023						
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	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 Puengpang
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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836182-2

Page 1 of 1

Sample Number	23116881-1
Sampled Date	Nov 08, 2023 7:50 AM
Sample Description	Wastewater
Location	บ่อ 1
Date Analysis Commenced	Nov 09, 2023
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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P/O : 4541289881

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836183-1

Page 1 of 1

Sample Number	23116881-2						
Sampled Date	Nov 08, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Nov 09, 2023						
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		-	-	7.6	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	260	≤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 Puengpang
Section Head

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Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

P/O : 4541289881

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836183-2

Page 1 of 1

Sample Number	23116881-2
Sampled Date	Nov 08, 2023 8:00 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Nov 09, 2023
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

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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836184-1

Page 1 of 1

Sample Number	23116881-3
Sampled Date	Nov 08, 2023 8:10 AM
Sample Description	Wastewater
Location	บ่อ 3
Date Analysis Commenced	Nov 09, 2023
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		-	-	7.6	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	408	≤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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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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836184-2

Page 1 of 1

Sample Number	23116881-3						
Sampled Date	Nov 08, 2023 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Nov 09, 2023						
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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Approved by



Sawitree Noisangiam
Manager

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863577-1

Page 1 of 1

Sample Number	23127557-1						
Sampled Date	Dec 08, 2023 7:30 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Dec 09, 2023						
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	268	≤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



Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

Client : The Shell Company of Thailand Limited
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P/O :

Project Name : Water Testing

Project Location: คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863577-2

Page 1 of 1

Sample Number	23127557-1						
Sampled Date	Dec 08, 2023 7:30 AM						
Sample Description	Wastewater						
Location	บ่อ 1						
Date Analysis Commenced	Dec 09, 2023						
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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Analysis / Test Report

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P/O :

Project Name : Water Testing

Project Location : คลังน้ำมันเชลล์สมุทรสงคราม

TESTING

No.0009

Lot ID: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863578-1

Page 1 of 1

Sample Number	23127557-2						
Sampled Date	Dec 08, 2023 8:00 AM						
Sample Description	Wastewater						
Location	บ่อ 2						
Date Analysis Commenced	Dec 09, 2023						
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		-	-	7.0	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	244	≤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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- "<" : 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

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: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863578-2

Page 1 of 1

Sample Number	23127557-2
Sampled Date	Dec 08, 2023 8:00 AM
Sample Description	Wastewater
Location	บ่อ 2
Date Analysis Commenced	Dec 09, 2023
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



Chanattagarn Imchom
Section Head

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Life Sciences

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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: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863579-1

Page 1 of 1

Sample Number	23127557-3						
Sampled Date	Dec 08, 2023 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Dec 09, 2023						
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	360	≤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



Suwimon Chairuangwut
Scientist (3)

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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: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863579-2

Page 1 of 1

Sample Number	23127557-3						
Sampled Date	Dec 08, 2023 8:10 AM						
Sample Description	Wastewater						
Location	บ่อ 3						
Date Analysis Commenced	Dec 09, 2023						
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



Chanattagarn Imchom
Section Head

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ภาคผนวก ค-2

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716632-1

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	2358407-4
Sampled Date	Jul 05, 2023 4:00 PM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Jul 07, 2023
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	27	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.0-9.0	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	4740	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)

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

n : Not Change from natural condition

Remark :

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Approved by



Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2358407

Date Received : Jul 06, 2023

Date Reported : Jul 13, 2023

Report Number : 2716633-1

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	2358407-5
Sampled Date	Jul 06, 2023 7:30 AM
Sample Description	Natural Water
Location	น้ำลงหน้าท่า
Date Analysis Commenced	Jul 07, 2023
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	34	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	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	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	22900	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)

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

n : Not Change from natural condition

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749676-1

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	2374060-4
Sampled Date	Aug 09, 2023 4:00 PM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Aug 11, 2023
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	7420	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	13	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



Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2374060

Date Received : Aug 10, 2023

Date Reported : Aug 18, 2023

Report Number : 2749677-1

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	2374060-5
Sampled Date	Aug 10, 2023 8:50 AM
Sample Description	Natural Water
Location	น้ำลงหน้าท่า
Date Analysis Commenced	Aug 11, 2023
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	6020	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	19	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 Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777033-1

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	2385911-4
Sampled Date	Sep 06, 2023 4:00 PM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Sep 08, 2023
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, 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	27	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		-	-	7.4	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	13780	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	23	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



Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2385911

Date Received : Sep 07, 2023

Date Reported : Sep 14, 2023

Report Number : 2777034-1

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	2385911-5						
Sampled Date	Sep 07, 2023 7:30 AM						
Sample Description	Natural Water						
Location	น้ำลงหน้าท่า						
Date Analysis Commenced	Sep 08, 2023						
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, 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		-	-	7.9	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	5160	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)

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Approved by



Siriluk Puengpang
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806118-1

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	2399192-4						
Sampled Date	Oct 06, 2023 8:20 AM						
Sample Description	Natural Water						
Location	น้ำขึ้นหน้าท่า						
Date Analysis Commenced	Oct 07, 2023						
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	1280	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	33	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



Nanthawadee Somboon
Specialist 1

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2399192

Date Received : Oct 06, 2023

Date Reported : Oct 14, 2023

Report Number : 2806119-1

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	2399192-5
Sampled Date	Oct 06, 2023 4:00 PM
Sample Description	Natural Water
Location	น้ำลงหน้าท่า
Date Analysis Commenced	Oct 07, 2023
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	27	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	15200	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	13	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



Nanthawadee Somboon
Specialist 1

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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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836185-1

Page 1 of 1

Sample Number	23116881-4
Sampled Date	Nov 08, 2023 4:00 PM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Nov 09, 2023
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		-	-	7.3	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	20050	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	9	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 Puengpang
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: 23116881

Date Received : Nov 08, 2023

Date Reported : Nov 15, 2023

Report Number : 2836186-1

Page 1 of 1

Sample Number	23116881-5
Sampled Date	Nov 08, 2023 9:00 AM
Sample Description	Natural Water
Location	น้ำลงหน้าท่า
Date Analysis Commenced	Nov 09, 2023
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	60	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		-	-	7.5	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	2950	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	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Siriluk Puengpang
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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: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863580-1

Page 1 of 1

Sample Number	23127557-4
Sampled Date	Dec 08, 2023 10:00 AM
Sample Description	Natural Water
Location	น้ำขึ้นหน้าท่า
Date Analysis Commenced	Dec 09, 2023
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	43	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	13280	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	11	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



Suwimon Chairuangwut
Scientist (3)

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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: 23127557

Date Received : Dec 08, 2023

Date Reported : Dec 14, 2023

Report Number : 2863581-1

Page 1 of 1

Sample Number	23127557-5
Sampled Date	Dec 08, 2023 8:30 AM
Sample Description	Natural Water
Location	น้ำลงหน้าท่า
Date Analysis Commenced	Dec 09, 2023
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	32	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	7100	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	8	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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Suwimon Chairuangwut
Scientist (3)

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