

## ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

## ภาคผนวก ค-1

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ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207127-1

Page 1 of 1

<b>Sample Number</b>	21123090-1
<b>Sampled Date</b>	Jan 11, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	284	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207127-2

Page 1 of 1

<b>Sample Number</b>	21123090-1
<b>Sampled Date</b>	Jan 11, 2022 7:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager



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**Project Name :** Water Testing

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**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207128-1

Page 1 of 1

<b>Sample Number</b>	21123090-2
<b>Sampled Date</b>	Jan 11, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	492	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 2540 D	Bangkok

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Siriluk P.

Siriluk Puengpang  
Supervisor

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**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

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**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207128-2

Page 1 of 1

<b>Sample Number</b>	21123090-2						
<b>Sampled Date</b>	Jan 11, 2022 8:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 2						
<b>Date Analysis Commenced</b>	Jan 12, 2022						
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager



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**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207129-1

Page 1 of 1

<b>Sample Number</b>	21123090-3
<b>Sampled Date</b>	Jan 11, 2022 8:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	6	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	536	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 2540 D	Bangkok

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Siriluk P.

Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207129-2

Page 1 of 1

<b>Sample Number</b>	21123090-3
<b>Sampled Date</b>	Jan 11, 2022 8:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager



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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235840-1

Page 1 of 1

<b>Sample Number</b>	21114850-1
<b>Sampled Date</b>	Feb 08, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	10	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	240	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235840-2

Page 1 of 1

<b>Sample Number</b>	21114850-1
<b>Sampled Date</b>	Feb 08, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Based on APHA (2017), 3125	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  
Assistant Manager

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235841-1

Page 1 of 1

<b>Sample Number</b>	21114850-2
<b>Sampled Date</b>	Feb 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	9	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	496	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 2540 D	Bangkok

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Supervisor

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**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235841-2

Page 1 of 1

<b>Sample Number</b>	21114850-2
<b>Sampled Date</b>	Feb 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Based on APHA (2017), 3125	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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Assistant Manager



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**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235842-1

Page 1 of 1

<b>Sample Number</b>	21114850-3
<b>Sampled Date</b>	Feb 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	11	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	512	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 2540 D	Bangkok

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235842-2

Page 1 of 1

<b>Sample Number</b>	21114850-3
<b>Sampled Date</b>	Feb 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Based on APHA (2017), 3125	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

*Sawitree N.*

Sawitree Noisangiam  
Assistant Manager



## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261625-1

Page 1 of 1

<b>Sample Number</b>	21142657-1
<b>Sampled Date</b>	Mar 08, 2022 7:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	216	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261625-2

Page 1 of 1

<b>Sample Number</b>	21142657-1
<b>Sampled Date</b>	Mar 08, 2022 7:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261626-1

Page 1 of 1

<b>Sample Number</b>	21142657-2
<b>Sampled Date</b>	Mar 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	492	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261626-2

Page 1 of 1

<b>Sample Number</b>	21142657-2
<b>Sampled Date</b>	Mar 08, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Based on APHA (2017), 3125	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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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261627-1

Page 1 of 1

<b>Sample Number</b>	21142657-3
<b>Sampled Date</b>	Mar 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.1	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	304	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261627-2

Page 1 of 1

<b>Sample Number</b>	21142657-3
<b>Sampled Date</b>	Mar 08, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager

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## Analysis / Test Report

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286360-1

Page 1 of 1

<b>Sample Number</b>	21138544-1
<b>Sampled Date</b>	Apr 05, 2022 7:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	168	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286360-2

Page 1 of 1

<b>Sample Number</b>	21138544-1						
<b>Sampled Date</b>	Apr 05, 2022 7:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 1						
<b>Date Analysis Commenced</b>	Apr 06, 2022						
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Based on APHA (2017), 3125	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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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286361-1

Page 1 of 1

<b>Sample Number</b>	21138544-2
<b>Sampled Date</b>	Apr 05, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	392	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286361-2

Page 1 of 1

<b>Sample Number</b>	21138544-2						
<b>Sampled Date</b>	Apr 05, 2022 8:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 2						
<b>Date Analysis Commenced</b>	Apr 06, 2022						
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0010	≤0.2	Based on APHA (2017), 3125	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

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286362-1

Page 1 of 1

<b>Sample Number</b>	21138544-3
<b>Sampled Date</b>	Apr 05, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	332	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : Apr 12, 2022

Report Number : 2286362-2

Page 1 of 1

<b>Sample Number</b>	21138544-3
<b>Sampled Date</b>	Apr 05, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Assistant Manager



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316465-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-1
<b>Sampled Date</b>	May 10, 2022 8:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.0	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	352	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316465-2

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-1						
<b>Sampled Date</b>	May 10, 2022 8:20 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 1						
<b>Date Analysis Commenced</b>	May 11, 2022						
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0007	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316466-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-2
<b>Sampled Date</b>	May 10, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	11	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	6.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	384	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316466-2

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-2
<b>Sampled Date</b>	May 10, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316467-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-3
<b>Sampled Date</b>	May 10, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	11	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	6.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	884	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316467-2

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2214696-3						
<b>Sampled Date</b>	May 10, 2022 8:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อ 3						
<b>Date Analysis Commenced</b>	May 11, 2022						
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Manager

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346679-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-1
<b>Sampled Date</b>	Jun 09, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346679-2

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-1
<b>Sampled Date</b>	Jun 09, 2022 8:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 1
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Based on APHA (2017), 3125	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: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346680-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-2
<b>Sampled Date</b>	Jun 09, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	8	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	316	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

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 :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346680-2

Page 1 of 1

<b>Sample Number</b>	2246855-2
<b>Sampled Date</b>	Jun 09, 2022 8:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 2
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.001	≤0.2	Based on APHA (2017), 3125	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

*Sawitree N.*

Sawitree Noisangiam  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346681-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location:** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-3
<b>Sampled Date</b>	Jun 09, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C)	mg/L	-	2	<2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	<5	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	564	≤3000	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346681-2

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-3
<b>Sampled Date</b>	Jun 09, 2022 8:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อ 3
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	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
<b>Metals Testing</b>							
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Based on APHA (2017), 3125	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 N.*

Sawitree Noisangiam  
Manager

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## ภาคผนวก ค-2

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ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน



## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207130-1

Page 1 of 1

<b>Sample Number</b>	21123090-4
<b>Sampled Date</b>	Jan 11, 2022 9:00 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	23	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	8.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	8780	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	7	No Standard	Based on APHA (2017), 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 P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21123090**

Date Received : Jan 11, 2022

Date Reported : Jan 17, 2022

Report Number : 2207131-1

Page 1 of 1

<b>Sample Number</b>	21123090-5
<b>Sampled Date</b>	Jan 10, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	42	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	25500	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	11	No Standard	Based on APHA (2017), 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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Siriluk Puengpang  
Supervisor

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235843-1

Page 1 of 1

<b>Sample Number</b>	21114850-4
<b>Sampled Date</b>	Feb 08, 2022 7:40 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	26	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	9360	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	9	No Standard	Based on APHA (2017), 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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## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21114850**

Date Received : Feb 08, 2022

Date Reported : Feb 15, 2022

Report Number : 2235844-1

Page 1 of 1

<b>Sample Number</b>	21114850-5
<b>Sampled Date</b>	Feb 07, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	71	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	18340	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	33	No Standard	Based on APHA (2017), 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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## Analysis / Test Report

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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261628-1

Page 1 of 1

<b>Sample Number</b>	21142657-4
<b>Sampled Date</b>	Mar 08, 2022 8:30 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	37	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	7500	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	22	No Standard	Based on APHA (2017), 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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n : Not Change from natural condition

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Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** The Shell Company of Thailand Limited  
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**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21142657**

Date Received : Mar 08, 2022

Date Reported : Mar 15, 2022

Report Number : 2261629-1

Page 1 of 1

<b>Sample Number</b>	21142657-5
<b>Sampled Date</b>	Mar 07, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	95	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	4820	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	79	No Standard	Based on APHA (2017), 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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## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : May 18, 2022

Report Number : 2286363-1 Rev. No.1

Page 1 of 1

<b>Sample Number</b>	21138544-4
<b>Sampled Date</b>	Apr 05, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	30	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	8260	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	9	No Standard	Based on APHA (2017), 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

**Note :** This Analysis test report is reissued to supersede report No.2286363-1, Date Reported : Apr 12, 2022 due to revise guideline/specification

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 21138544**

Date Received : Apr 05, 2022

Date Reported : May 18, 2022

Report Number : 2286364-1 Rev. No.1

Page 1 of 1

<b>Sample Number</b>	21138544-5
<b>Sampled Date</b>	Apr 05, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	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
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	16	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	2020	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	49	No Standard	Based on APHA (2017), 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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n : Not Change from natural condition

**Note :** This Analysis test report is reissued to supersede report No.2286364-1, Date Reported : Apr 12, 2022 due to revise guideline/specification

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## Analysis / Test Report

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316468-1

Page 1 of 1

<b>Sample Number</b>	2214696-4
<b>Sampled Date</b>	May 09, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	6	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	1000	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	56	No Standard	Based on APHA (2017), 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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Supervisor

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## Analysis / Test Report

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10, Soonthornkosa Road, Klongtoey, Bangkok Thailand 10110

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

**TESTING**

**No.0009**

**Lot ID: 2214696**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316469-1

Page 1 of 1

<b>Sample Number</b>	2214696-5
<b>Sampled Date</b>	May 10, 2022 7:50 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	10	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	6380	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	14	No Standard	Based on APHA (2017), 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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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346682-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-4
<b>Sampled Date</b>	Jun 09, 2022 4:00 PM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำขึ้นหน้าท่า
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	12	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	3440	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	Based on APHA (2017), 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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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2246855**

Date Received : Jun 09, 2022

Date Reported : Jun 16, 2022

Report Number : 2346683-1

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

**P/O :** 4535076864

**Project Name :** Water Testing

**Project Location :** คลังน้ำมันเชลล์สมุทรสงคราม

Page 1 of 1

<b>Sample Number</b>	2246855-5
<b>Sampled Date</b>	Jun 09, 2022 9:00 AM
<b>Sample Description</b>	Natural Water
<b>Location</b>	น้ำลงหน้าท่า
<b>Date Analysis Commenced</b>	Jun 10, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤2	Based on APHA (2017), 5210 B	Bangkok
COD *	mg/L	1.5	5	21	No Standard	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	4	No Standard	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	10340	No Standard	Based on APHA (2017), 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	16	No Standard	Based on APHA (2017), 2540 D	Bangkok

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