

# ภาคผนวก ค

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ใบรายงานผลวิเคราะห์



## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2411981**

Date Received : Jan 31, 2024

Date Reported : Mar 07, 2024

Report Number : 2904333-1 Rev. No.1

**Client** : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O** : 0101434243

**Project Name** : Tarapak

**Project Location** :

Page 1 of 2

<b>Sample Number</b>	2411981-1
<b>Sampled Date</b>	Jan 31, 2024 10:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	Feb 01, 2024
<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	-	2.0	2.6	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	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		-	-	6.9	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
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	728	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	16.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

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

Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

TESTING  
No.0009

**Lot ID: 2411981**

Date Received : Jan 31, 2024

Date Reported : Mar 07, 2024

Report Number : 2904333-1 Rev. No.1

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :** 0101434243

**Project Name :** Tarapak

**Project Location :**

Page 2 of 2

**Note :** This Analysis test report is reissued to supersede report No.2904333-1, Date Reported : Feb 06, 2024 due to revise guideline/specification

**Sampling By :** Wirat Chainara

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.
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Accreditation No. 1031/47

## Analysis / Test Report

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101434243

Project Name : Tarapak

Project Location :

Lot ID: 2411981

Date Received : Jan 31, 2024

Date Reported : Feb 06, 2024

Report Number : 2904335-1

Page 1 of 1

Sample Number	2411981-3
Sampled Date	Jan 31, 2024 10:45 AM
Sample Description	Tap Water
Location	น้ำประปา
Date Analysis Commenced	Feb 01, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	288	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

Sampling By : Wirat Chainara

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Siriluk Puengpang  
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## Analysis / Test Report

TESTING  
No.0009

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101434243

Project Name : Tarapak

Project Location :

Lot ID: 2411981

Date Received : Jan 31, 2024

Date Reported : Mar 07, 2024

Report Number : 2904334-1 Rev. No.1

Page 1 of 1

Sample Number	2411981-2
Sampled Date	Jan 31, 2024 11:00 AM
Sample Description	Wastewater
Location	น้ำจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Feb 01, 2024
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	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	24.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	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	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	504	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	60.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Note :** This Analysis test report is reissued to supersede report No.2904334-1, Date Reported : Feb 06, 2024 due to revise guideline/specification

**Sampling By :** Wirat Chainara

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Siriluk P.

Siriluk Bunnak  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2411998**

Date Received : Feb 27, 2024

Date Reported : Mar 07, 2024

Report Number : 2927298-1 Rev. No.1

**Client** : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O** : 0101436440

**Project Name** : Tarapak

**Project Location** :

Page 1 of 2

<b>Sample Number</b>	2411998-1
<b>Sampled Date</b>	Feb 27, 2024 10:30 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	Feb 28, 2024
<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	-	2.0	2.4	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	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	5.0-9.0	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
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	672	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	15.8	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

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## Analysis / Test Report

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :** 0101436440

**Project Name :** Tarapak

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 2411998**

Date Received : Feb 27, 2024

Date Reported : Mar 07, 2024

Report Number : 2927298-1 Rev. No.1

Page 2 of 2

**Note :** This Analysis test report is reissued to supersede report No.2927298-1, Date Reported : Mar 05, 2024 due to revise guideline/specification

**Sampling By :** Naruebet Permpoon

**Remark :**

- LOD : Limit of Detection
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*Siriluk P.*

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Accreditation No. 1031/47

## Analysis / Test Report

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :** 0101436440

**Project Name :** Tarapak

**Project Location :**

**Lot ID: 2411998**

Date Received : Feb 27, 2024

Date Reported : Mar 05, 2024

Report Number : 2927300-1

Page 1 of 1

<b>Sample Number</b>	2411998-3
<b>Sampled Date</b>	Feb 27, 2024 10:40 AM
<b>Sample Description</b>	Tap Water
<b>Location</b>	น้ำประปา
<b>Date Analysis Commenced</b>	Feb 28, 2024
<b>Condition of Sample</b>	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	250	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

**Sampling By :** Naruebet Permpoon

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Siriluk Bunnak  
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## Analysis / Test Report

TESTING  
No.0009

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101436440

Project Name : Tarapak

Project Location :

Lot ID: 2411998

Date Received : Feb 27, 2024

Date Reported : Mar 05, 2024

Report Number : 2927299-1

Page 1 of 1

Sample Number	2411998-2
Sampled Date	Feb 27, 2024 10:35 AM
Sample Description	Wastewater
Location	น้ำจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Feb 28, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	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		-	-	8.2	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	512	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	59.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Naruebet Permpoon

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Siriluk Bunnak  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2422402**

Date Received : Mar 25, 2024

Date Reported : Mar 30, 2024

Report Number : 2952366-1

**Client** : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O** : 0101446967

**Project Name** : Tarapak

**Project Location** :

Page 1 of 2

<b>Sample Number</b>	2422402-1
<b>Sampled Date</b>	Mar 25, 2024 12:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	มอดตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	Mar 25, 2024
<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	-	2.0	4.9	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	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	5.0-9.0	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
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	544	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	19.4	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type B.

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Approved by

*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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## Analysis / Test Report

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :** 0101446967

**Project Name :** Tarapak

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 2422402**

Date Received : Mar 25, 2024

Date Reported : Mar 30, 2024

Report Number : 2952366-1

Page 2 of 2

**Sampling By :** Pichai Boonyong

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*Suwimon C.*

Suwimon Chairuangwut  
Scientist (3)

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TESTING  
No.0009

**Client :** CP All Public Co., Ltd.  
Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120  
**P/O :** 0101446967  
**Project Name :** Tarapak  
**Project Location :**

**Lot ID: 2422402**  
Date Received : Mar 25, 2024  
Date Reported : Mar 30, 2024  
Report Number : 2952367-1

Page 1 of 1

<b>Sample Number</b>	2422402-2
<b>Sampled Date</b>	Mar 25, 2024 1:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	น้ำจากระบบบำบัดน้ำเสีย
<b>Date Analysis Commenced</b>	Mar 25, 2024
<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	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	17.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	4	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		-	-	8.3	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
Sulfide *	mg/L	-	0.5	0.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	384	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	75.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	16	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By :** Pichai Boonyong

**Remark :**

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Approved by

Suwimon C.

Suwimon Chairuangwut  
Scientist (3)

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Accreditation No. 1031/47

## Analysis / Test Report

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101446967

Project Name : Tarapak

Project Location :

Lot ID: 2422402

Date Received : Mar 25, 2024

Date Reported : Mar 30, 2024

Report Number : 2952368-1

Page 1 of 1

Sample Number	2422402-3
Sampled Date	Mar 25, 2024 12:55 PM
Sample Description	Tap Water
Location	น้ำประปา
Date Analysis Commenced	Mar 26, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	218	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

Sampling By : Pichai Boonyong

Remark :

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2434158**

Date Received : Apr 29, 2024

Date Reported : May 07, 2024

Report Number : 2983946-1

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :**

**Project Name :** Tarapak

**Project Location :**

Page 1 of 2

<b>Sample Number</b>	2434158-1
<b>Sampled Date</b>	Apr 29, 2024 2:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	Apr 30, 2024
<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	-	2.0	4.2	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	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		-	-	6.4	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
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	488	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	14.8	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline :** Notification of Ministry of Natural Resources and Environment November, 7, B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

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Approved by

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Siriluk Bunnak  
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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2434158**

Date Received : Apr 29, 2024

Date Reported : May 07, 2024

Report Number : 2983946-1

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :**

**Project Name :** Tarapak

**Project Location :**

Page 2 of 2

**Sampling By :** Wirat Chainara

Remark :

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## Analysis / Test Report

TESTING  
No.0009

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O :

Project Name : Tarapak

Project Location :

Lot ID: 2434158

Date Received : Apr 29, 2024

Date Reported : May 07, 2024

Report Number : 2983947-1

Page 1 of 1

Sample Number	2434158-2
Sampled Date	Apr 29, 2024 3:10 PM
Sample Description	Wastewater
Location	น้ำจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Apr 30, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	41.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	3	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	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	380	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	42.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	157	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Wirat Chainara

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Section Head

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Accreditation No. 1031/47

## Analysis / Test Report

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O :

Project Name : Tarapak

Project Location :

Lot ID: 2434158

Date Received : Apr 29, 2024

Date Reported : May 07, 2024

Report Number : 2983948-1

Page 1 of 1

Sample Number	2434158-3
Sampled Date	Apr 29, 2024 2:55 PM
Sample Description	Tap Water
Location	น้ำประปา
Date Analysis Commenced	Apr 30, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	210	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

Sampling By : Wirat Chainara

Remark :

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2442873**

Date Received : May 29, 2024

Date Reported : Jun 24, 2024

Report Number : 3013557-1

**Client** : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O** : 0101456388

**Project Name** : Tarapak

**Project Location** :

Page 1 of 2

<b>Sample Number</b>	2442873-1
<b>Sampled Date</b>	May 29, 2024 8:50 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	May 30, 2024
<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	-	2.0	4.8	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	3	≤20	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		-	-	6.2	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
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	636	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	9.6	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	5	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Guideline** : Notification of Ministry of Natural Resources and Environment November,7 ,B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type B.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

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Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2442873**

Date Received : May 29, 2024

Date Reported : Jun 24, 2024

Report Number : 3013557-1

**Client :** CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

**P/O :** 0101456388

**Project Name :** Tarapak

**Project Location :**

Page 2 of 2

**Sampling By :** Wirat Chainara

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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## Analysis / Test Report

TESTING  
No.0009

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101456388

Project Name : Tarapak

Project Location :

Lot ID: 2442873

Date Received : May 29, 2024

Date Reported : Jun 24, 2024

Report Number : 3013558-1

Page 1 of 1

Sample Number	2442873-2
Sampled Date	May 29, 2024 9:10 AM
Sample Description	Wastewater
Location	น้ำจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	May 30, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	19.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	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		-	-	7.1	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	524	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	33.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	24	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Wirat Chainara

Remark :

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Siriluk Bunnak  
Section Head

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Accreditation No. 1031/47

## Analysis / Test Report

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101456388

Project Name : Tarapak

Project Location :

Lot ID: 2442873

Date Received : May 29, 2024

Date Reported : Jun 24, 2024

Report Number : 3013559-1

Page 1 of 1

Sample Number	2442873-3
Sampled Date	May 29, 2024 9:00 AM
Sample Description	Tap Water
Location	น้ำประปา
Date Analysis Commenced	May 30, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	230	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

Sampling By : Wirat Chainara

Remark :

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## Analysis / Test Report

TESTING  
No.0009

**Client :** CP All Public Co., Ltd.  
Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120  
**P/O :** 0101494595,0101494596  
**Project Name :** Tarapak  
**Project Location :**

**Lot ID: 2460744**

Date Received : Jun 24, 2024

Date Reported : Jul 15, 2024

Report Number : 3041404-1

Page 1 of 1

<b>Sample Number</b>	2460744-1
<b>Sampled Date</b>	Jun 24, 2024 8:55 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	ปอดตรวจคุณภาพก่อนระบายออก (บริเวณด้านหน้าโครงการ)
<b>Date Analysis Commenced</b>	Jun 25, 2024
<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	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	3	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		-	-	6.0	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	608	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	3.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

**Sampling By :** Jiranat Khowlaor

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.

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Approved by

Siriluk P.

Siriluk Bunnak  
Section Head

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## Analysis / Test Report

TESTING  
No.0009

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101494595,0101494596

Project Name : Tarapak

Project Location :

Lot ID: 2460744

Date Received : Jun 24, 2024

Date Reported : Jul 15, 2024

Report Number : 3041405-1

Page 1 of 1

Sample Number	2460744-2
Sampled Date	Jun 24, 2024 9:00 AM
Sample Description	Wastewater
Location	น้ำจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Jun 25, 2024
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	Method	Testing Location
<b>Water Testing</b>						
BOD (5 days at 20 degree C)	mg/L	-	2.0	25.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	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		-	-	6.1	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
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Bangkok
Total Dissolved Solids Dried at 103-105 degree C	mg/L	-	5	492	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	19.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	18	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Jiranat Khowlaor

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Approved by

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Siriluk Bunnak  
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Accreditation No. 1031/47

## Analysis / Test Report

Client : CP All Public Co., Ltd.

Tarapark 58/2 Moo 2, Changwattana Road, Tambol Bangtalad, Amphur Pakkred,  
Nonthaburi Thailand 11120

P/O : 0101494595,0101494596

Project Name : Tarapak

Project Location :

Lot ID: 2460744

Date Received : Jun 24, 2024

Date Reported : Jul 15, 2024

Report Number : 3041406-1

Page 1 of 1

Sample Number	2460744-3
Sampled Date	Jun 24, 2024 8:53 AM
Sample Description	Tap Water
Location	น้ำประปา
Date Analysis Commenced	Jun 25, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
<b>Water Testing</b>						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	260	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok

Sampling By : Jiranat Khowlaor

Remark :

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