

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์ผลกระทบสิ่งแวดล้อม



Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069053-1

Page 1 of 1

Sample Number	2474251-1
Sampled Date	Jul 20, 2024 9:00 AM
Sample Description	Wastewater
Location	จุดรวบรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย
Date Analysis Commenced	Jul 23, 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
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	23.1	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	6	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	0.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	404	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	53.3	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	55	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Sanchai Kosrinam

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



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069054-1

Page 1 of 1

Sample Number	2474251-2
Sampled Date	Jul 20, 2024 9:10 AM
Sample Description	Consumption Water
Date Analysis Commenced	Jul 24, 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
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	227	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 : Sanchai Kosrinam

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069055-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang

Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	2474251-3
Sampled Date	Jul 20, 2024 8:50 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Jul 23, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	5.4	≤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	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	496	(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	19.6	≤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	25	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069055-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

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.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 227 มิลลิกรัมต่อลิตร

Sampling By : Sanchai Kosrinam

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069056-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	2474251-4
Sampled Date	Jul 20, 2024 9:15 AM
Sample Description	Wastewater
Location	บ่อกักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Jul 23, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.6	≤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	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	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	452	(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	2.2	≤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

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2474251

Date Received : Jul 20, 2024

Date Reported : Jul 30, 2024

Report Number : 3069056-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

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.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 227 มิลลิกรัมต่อลิตร

Sampling By : Sanchai Kosrinam

Remark :

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Analysis / Test Report

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Lot ID: 2487324

Date Received : Aug 10, 2024

Date Reported : Aug 19, 2024

Report Number :3086493-1

Page 1 of 1

Sample Number	2487324-1
Sampled Date	Aug 10, 2024 8:40 AM
Sample Description	Wastewater
Location	จุดรวมน้ำเสียเขารวมบ่อบำบัดน้ำเสีย
Date Analysis Commenced	Aug 13, 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
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	77.1	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	12	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
Settleable Solid *	mL/L/hr	-	0.1	15.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	332	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	30.2	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	226	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Sampling By : Chayanwut Chaihanit

Remark :

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Section Head

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Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Lot ID: 2487324

Date Received : Aug 10, 2024

Date Reported : Aug 19, 2024

Report Number : 3086494-1

Page 1 of 1

Sample Number	2487324-2
Sampled Date	Aug 10, 2024 8:55 AM
Sample Description	Consumption Water
Date Analysis Commenced	Aug 13, 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
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	172	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 : Chayanwut Chaihanit

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2487324

Date Received : Aug 10, 2024

Date Reported : Aug 19, 2024

Report Number : 3086495-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang

Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Page 1 of 2

Sample Number	2487324-3
Sampled Date	Aug 10, 2024 8:30 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Aug 13, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	11.4	≤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		-	-	6.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	420	(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	19.1	≤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	19	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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Report Number : 3086495-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Page 2 of 2

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.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 172 มิลลิกรัมต่อลิตร

Sampling By : Chayanwut Chaihanit

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2487324

Date Received : Aug 10, 2024

Date Reported : Aug 19, 2024

Report Number : 3086496-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Page 1 of 2

Sample Number	2487324-4
Sampled Date	Aug 10, 2024 8:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Aug 13, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤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
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	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	376	(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	4.2	≤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

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Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2487324

Date Received : Aug 10, 2024

Date Reported : Aug 19, 2024

Report Number : 3086496-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54240026

Project Name :

Project Location :

Page 2 of 2

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.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 172 มิลลิกรัมต่อลิตร

Sampling By : Chayanwut Chaihanit

Remark :

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

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118184-1

Page 1 of 1

Sample Number	24103662-1
Sampled Date	Sep 14, 2024 9:25 AM
Sample Description	Wastewater
Location	จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย
Date Analysis Commenced	Sep 14, 2024
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	251	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	28.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	288	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	128	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	417	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Wisarut Sretamma

Remark :

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

Suwimon C.

Suwimon Chairuangwut
Scientist (3)



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118185-1

Page 1 of 1

Sample Number 24103662-2
Sampled Date Sep 14, 2024 9:35 AM
Sample Description Consumption Water
Date Analysis Commenced Sep 16, 2024
Condition of Sample Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	129	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Sampling By : Wisarut Sretamma

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Suwimon C.

Suwimon Chairuangwut
Scientist (3)

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118186-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang

Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24103662-3
Sampled Date	Sep 14, 2024 9:20 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Sep 14, 2024
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	15.8	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	308	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	34.2	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	19	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

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Suwimon C.

Suwimon Chairuangwut
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Analysis / Test Report

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777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118186-1

Page 2 of 2

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

Sampling By : Wisarut Sretamma

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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Analysis / Test Report

TESTING

No.0009

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118187-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang

Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24103662-4
Sampled Date	Sep 14, 2024 9:40 AM
Sample Description	Wastewater
Location	บ่อกักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Sep 14, 2024
Condition of Sample	Contained in four plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and no turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	9.4	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	104	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	4.5	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, 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, 24th ed., 2023, part 2540 D	Bangkok

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Analysis / Test Report

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24103662

Date Received : Sep 14, 2024

Date Reported : Sep 21, 2024

Report Number : 3118187-1

Page 2 of 2

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

Sampling By : Wisarut Sretamma

Remark :

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

TESTING
No.0009

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143089-1

Page 1 of 1

Sample Number	24115582-1
Sampled Date	Oct 12, 2024 10:30 AM
Sample Description	Wastewater
Location	จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย
Date Analysis Commenced	Oct 15, 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
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	63.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	11	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	1.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	1.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	228	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	64.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	69	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Anuwat Phutawin

Remark :

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Siriluk P.

Siriluk Bunnak
Section Head



Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143090-1

Page 1 of 1

Sample Number 24115582-2
Sampled Date Oct 12, 2024 10:53 AM
Sample Description Consumption Water
Date Analysis Commenced Oct 15, 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
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	137	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Sampling By : Anuwat Phutawin

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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No.0009

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143091-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang

Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24115582-3
Sampled Date	Oct 12, 2024 10:20 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากกระบวนการบำบัดน้ำเสีย
Date Analysis Commenced	Oct 15, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	10.8	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	232	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	28.2	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	15	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

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Siriluk Bunnak
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Analysis / Test Report

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143091-1

Page 2 of 2

Sampling By : Anuwat Phutawin

Remark :

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143092-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24115582-4
Sampled Date	Oct 12, 2024 10:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Oct 15, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	3.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	264	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	14.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

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Siriluk Bunnak
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Analysis / Test Report

TESTING
No.0009

Lot ID: 24115582

Date Received : Oct 12, 2024

Date Reported : Oct 21, 2024

Report Number : 3143092-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 2 of 2

Sampling By : Anuwat Phutawin

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number :3168241-1

Page 1 of 1

Sample Number	24126032-1
Sampled Date	Nov 09, 2024 9:00 AM
Sample Description	Wastewater
Location	จุดรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย
Date Analysis Commenced	Nov 09, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	4.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	176	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	27.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Nonthakorn Phurkphong

Remark :

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Approved by

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number : 3168242-1

Page 1 of 1

Sample Number	24126032-2
Sampled Date	Nov 09, 2024 9:26 AM
Sample Description	Consumption Water
Date Analysis Commenced	Nov 11, 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
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	134	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Sampling By : Nonthakorn Phurkphong

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number : 3168243-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24126032-3
Sampled Date	Nov 09, 2024 9:09 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากระบบบำบัดน้ำเสีย
Date Analysis Commenced	Nov 09, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	11.0	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	0.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	248	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	23.4	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	42	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number : 3168243-1

Page 2 of 2

Sampling By : Nonthakorn Phurkphong

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Analysis / Test Report

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No.0009

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number : 3168244-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24126032-4
Sampled Date	Nov 09, 2024 9:24 AM
Sample Description	Wastewater
Location	บ่อกักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Nov 09, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	6.4	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	0.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	368	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	8.1	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	11	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

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Suwimon Chairuangwut
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P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24126032

Date Received : Nov 09, 2024

Date Reported : Nov 16, 2024

Report Number : 3168244-1

Page 2 of 2

Sampling By : Nonthakorn Phurkphong

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Analysis / Test Report

TESTING
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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24126036

Date Received : Dec 14, 2024

Date Reported : Dec 21, 2024

Report Number : 3199536-1

Page 1 of 1

Sample Number	24126036-1
Sampled Date	Dec 14, 2024 8:50 AM
Sample Description	Wastewater
Location	จุดรวมรวมน้ำเสียเข้าระบบบำบัดน้ำเสีย
Date Analysis Commenced	Dec 14, 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
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	35.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	20.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	424	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	37.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	240	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Anuwat Phutawin

Remark :

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Accreditation No. 1031/47

Analysis / Test Report

Client : WHA Corporation Public Company Limited
777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Lot ID: 24126036

Date Received : Dec 14, 2024

Date Reported : Dec 21, 2024

Report Number : 3199537-1

Page 1 of 1

Sample Number	24126036-2
Sampled Date	Dec 14, 2024 9:34 AM
Sample Description	Consumption Water
Date Analysis Commenced	Dec 16, 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
Water Testing						
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	202	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok

Sampling By : Anuwat Phutawin

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24126036

Date Received : Dec 14, 2024

Date Reported : Dec 21, 2024

Report Number : 3199538-1

Client : WHA Corporation Public Company Limited

777 Moo 13 WHA Tower, 23rd -25th Floor, Debaratana Road (Bangna-trad) KM.7, Bang
Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24126036-3
Sampled Date	Dec 14, 2024 8:45 AM
Sample Description	Wastewater
Location	จุดระบายน้ำออกจากกระบวนการบำบัดน้ำเสีย
Date Analysis Commenced	Dec 14, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	13.5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	6.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	332	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	8.1	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	28	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

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Analysis / Test Report

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24126036

Date Received : Dec 14, 2024

Date Reported : Dec 21, 2024

Report Number : 3199538-1

Page 2 of 2

Sampling By : Anuwat Phutawin

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Analysis / Test Report

TESTING

No.0009

Lot ID: 24126036

Date Received : Dec 14, 2024

Date Reported : Dec 21, 2024

Report Number : 3199539-1

Client : WHA Corporation Public Company Limited

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Kaeo, Bang Phli, Samut Prakan Thailand 10540

P/O : 54230089

Project Name :

Project Location :

Page 1 of 2

Sample Number	24126036-4
Sampled Date	Dec 14, 2024 9:30 AM
Sample Description	Wastewater
Location	บ่อกักน้ำสุดท้าย ก่อนระบายออกสู่ท่อระบายน้ำสาธารณะ
Date Analysis Commenced	Dec 14, 2024
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	12.5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Bangkok
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	332	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	7.3	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type B.

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P/O : 54230089

Project Name :

Project Location :

TESTING

No.0009

Lot ID: 24126036

Date Received : Dec 14, 2024

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Report Number : 3199539-1

Page 2 of 2

Sampling By : Anuwat Phutawin

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