

## ภาคผนวก ค

### ใบรับรองผลการตรวจวิเคราะห์คุณภาพน้ำทิ้งผ่านการบำบัด/น้ำใช้



**United Analyst and Engineering Consultant Co., Ltd.**

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NSC - TISI - TIS 17025  
TESTING 0207



TESTING  
No. 0063

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: CHAPTER ONE MDTOWN LATPHRAO 24	<b>RECEIVED DATE</b>	: JULY 17, 2023
<b>ADDRESS</b>	: 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: JULY 17-24, 2023
<b>CONTACT INFORMATION</b>	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	<b>REPORT NO.</b>	: 2023-U061702
<b>SAMPLING SOURCE</b>	: CHAPTER ONE MDTOWN LATPHRAO 24	<b>WORK NO.</b>	: 2023-001655
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AN669-0001
<b>SAMPLING DATE</b>	: JULY 17, 2023		
<b>SAMPLING TIME</b>	: 10:55 HOUR		
<b>SAMPLING METHOD</b>	: GRAB		
<b>SAMPLING BY</b>	: MR. ACHITA SAENGJAN		
<b>ANALYZED BY</b>	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ป๊อพักน้ำทิ้งสุดท้าย ก่อนปล่อยลงท่อ ระบายน้ำสาธารณะ T23AN669-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	8.0 (33°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	32.2	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	70.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	348	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	70.7	≤ 35	15



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MSC-TISI-TIS 17025  
TESTING 8287



TESTING  
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ไม่พบค่าที่สอดคล้อง กับค่ามาตรฐาน รายงานผลการ T23AN669-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

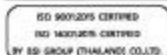
500<sup>g</sup> : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JULY 26, 2023



• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

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2023-U061702

- End of Analysis Report -



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TESTING  
No.0063

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : JULY 17, 2023  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JULY 17, 2023  
**ANALYTICAL DATE** : JULY 17-20, 2023  
**REPORT NO.** : 2023-U061703  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AN669-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าวิเคราะห์ T23AN669-0002	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	242	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JULY 26, 2023



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NSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0083

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 21, 2023  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. CHOKCHAI PHUMSAWAI  
**ANALYZED BY** : MISS AKSARIN BUNKONG

**RECEIVED DATE** : AUGUST 21, 2023  
**ANALYTICAL DATE** : AUGUST 21-26, 2023  
**REPORT NO.** : 2023-U071303  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AQ133-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทครั้งสุดท้าย ก่อนปล่อยมลพิษ ระบายน้ำสาธารณะ T23AQ133-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	77.4	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	222	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	370	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	1.0	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	84.5	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 29, 2023



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TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MDTOWN LATPHRAO 24  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : AUGUST 21, 2023  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>o</sup>** : MR CHOKCHAI PHUMSAWAI  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : AUGUST 21, 2023  
**ANALYTICAL DATE** : AUGUST 21-23, 2023  
**REPORT NO.** : 2023-U071304  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AQ133-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าวิเคราะห์ T23AQ133-0002	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	246	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 29, 2023





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NSC - TISI - TIS 17025

TESTING 0207



TESTING

No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : SEPTEMBER 12, 2023  
**SAMPLING TIME** : 14:00 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS AKSARIN BUNKONG

**RECEIVED DATE** : SEPTEMBER 12, 2023  
**ANALYTICAL DATE** : SEPTEMBER 12-19, 2023  
**REPORT NO.** : 2023-U079351  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AR947-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริษัท จำกัด ผู้ส่งมอบ ทดสอบโดย รายงานผลการ T23AR947-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.8 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	33.8	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	53.1	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C; SM: PART 2540 C)	400	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	29.5	≤ 35	15



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NSC-TISI-TIS 17025  
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LABORATORY ACCREDITED  
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ไม่พบค่าถึงขีดห้าม ของปริมาณของของ ระเหยง่ายในอากาศ T23AR947-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE  
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122,  
PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

SEPTEMBER 20, 2023





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NSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0083

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : OCTOBER 25, 2023  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD <sup>a</sup>** : GRAB  
**SAMPLING BY <sup>a</sup>** : MR. ACHITA SAENGJAN  
**ANALYZED BY** : MISS ARIYA THARAROM  
**RECEIVED DATE** : OCTOBER 25, 2023  
**ANALYTICAL DATE** : OCTOBER 25 - NOVEMBER 1, 2023  
**REPORT NO.** : 2023-U093837  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AV183-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกค่าที่สูงสุดท้าย ก่อนปล่อยลงท่อ ระบายน้ำสาธารณะ T23AV183-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	26.9	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	68.2	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	286	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	70.4	≤ 35	1.5



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No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอดิฟิเคชั่นสูงสุดท้าย ก่อนปล่อยลงท่อ ระบายน้ำสาธารณะ T23AV183-0001		
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 3, 2023



**United Analyst and Engineering Consultant Co., Ltd.**

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NSC-TISI-TIS 17025  
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TESTING  
No. 0063

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: CHAPTER ONE MDTOWN LATPHRAO 24	<b>RECEIVED DATE</b>	: NOVEMBER 16, 2023
<b>ADDRESS</b>	: 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900	<b>ANALYTICAL DATE</b>	: NOVEMBER 16-22, 2023
<b>CONTACT INFORMATION</b>	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	<b>REPORT NO.</b>	: 2023-U101538
<b>SAMPLING SOURCE</b>	: CHAPTER ONE MDTOWN LATPHRAO 24	<b>WORK NO.</b>	: 2023-001655
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AW917-0001
<b>SAMPLING DATE</b>	: NOVEMBER 16, 2023		
<b>SAMPLING TIME</b>	: 13:00 HOUR		
<b>SAMPLING METHOD <sup>a</sup></b>	: GRAB		
<b>SAMPLING BY <sup>c</sup></b>	: MR APISET SRIKONGKAEW		
<b>ANALYZED BY</b>	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			เมื่อเก็บน้ำถึงสุดท้าย ก่อนปล่อยลงท่อระบายน้ำสาธารณะ T23AW917-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H <sup>+</sup> B AND 1060 B	7.8 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G)	29.3	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	80.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM PART 2540 C	266	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM PART 2540 F)	0.7	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM PART 4500-Norg C	71.9	≤ 35	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	5	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 27, 2023



**United Analyst and Engineering Consultant Co., Ltd.**

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TESTING  
No.0063

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : NOVEMBER 16, 2023  
**SAMPLING TIME** : 13:10 HOUR  
**SAMPLING METHOD** <sup>a</sup> : GRAB  
**SAMPLING BY** <sup>c</sup> : MR APISIT SRIKONGKAEW  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : NOVEMBER 16, 2023  
**ANALYTICAL DATE** : NOVEMBER 16-21, 2023  
**REPORT NO.** : 2023-U101540  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AW917-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			จำเพาะ T23AW917-0002	
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	139	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 27, 2023





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NSC - TISI - TIS 17025  
TESTING 0207



LABORATORY ACCREDITATION  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MIDTOWN LATPHRAO 24  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : DECEMBER 20, 2023  
**SAMPLING TIME** : 09:05 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS AKSARIN BUNKONG

**RECEIVED DATE** : DECEMBER 20, 2023  
**ANALYTICAL DATE** : DECEMBER 20-27, 2023  
**REPORT NO.** : 2023-U112990  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AZ514-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ข้อพิพาทครั้งสุดท้าย ก่อนปิดของห้อง ระบายน้ำสาธารณะ T23AZ514-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.6 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	34.3	≤ 20	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	86.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	370	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	2.0	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	58.1	≤ 35	1.5



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\* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.





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NSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ไม่พบค่าที่ส่งสุดท้าย ก่อนปล่อยลงท่อ ระบายน้ำสาธารณะ T23AZ514-0001		
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL. 139 SPECIAL PART 1/1 D, DATED JULY 21, 2022.

500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

DECEMBER 28, 2023

ISO 9001:2015 CERTIFIED

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## ANALYSIS REPORT

**CUSTOMER NAME** : CHAPTER ONE MDTOWN LATPHRAO 24  
**ADDRESS** : 432 LAT PHRAO ROAD CHOM PHON CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : CHAPTER ONE MDTOWN LATPHRAO 24  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : DECEMBER 20, 2023  
**SAMPLING TIME** : 09:15 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : DECEMBER 20, 2023  
**ANALYTICAL DATE** : DECEMBER 20-27, 2023  
**REPORT NO.** : 2023-U112991  
**WORK NO.** : 2023-001655  
**ANALYSIS NO.** : T23AZ514-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าประปา T23AZ514-0002	
TOTAL DISSOLVED SOLIDS <sup>a</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	245	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

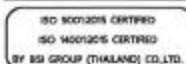
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

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DECEMBER 28, 2023



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