ภาคผนวก ค

ใบรายงานผลการตรวจวัดและวิเคราะห์คุณภาพสิ่งแวดล้อม

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
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NSC -TISI -TIS 17025
TESTING 0207
LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY [redacted]
ANALYZED BY [redacted]EE

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-25, 2023
REPORT NO. : 2023-U006619
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AA972-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [a]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	7.1 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	179	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	76.9	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	444	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	0.2	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	10.1	≤ 35	1.5

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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AA972-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	12	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			YELLOW		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

[redacted]

JANUARY 31, 2023

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ANALYSIS REPORT

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ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY [redacted]
ANALYZED BY

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-25, 2023
REPORT NO. : 2023-U006620
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AA972-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [a]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	7.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	30.6	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	39.0	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	368	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	13.0	≤ 35	1.5

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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคาร ถังเกรอะกรองเติมอากาศบริเวณส่วนตกตะกอน T23AA972-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

[redacted]

JANUARY 31, 2023

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ANALYSIS REPORT

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ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY [redacted]
ANALYZED BY

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-25, 2023
REPORT NO. : 2023-U006622
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AA972-0004	REGULATORY STANDARD	DETECTION LIMIT
pH [a]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.7 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	7.2	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	9.4	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	432	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	5.1	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AA972-0004	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	24	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

JANUARY 31, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:35 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY [redacted]
ANALYZED BY

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-25, 2023
REPORT NO. : 2023-U006621
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AA972-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [a]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.9 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	19.5	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	27.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	430	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	< LOQ	≤ 35	1.5

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BLA-DSS
TESTING
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังส้มผัสคลอรีน T23AA972-0003	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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[c] : 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 rdEDITION, 2017.

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500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

[redacted]

JANUARY 31, 2023

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ANALYSIS REPORT

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ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:25 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY [redacted]
ANALYZED BY

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-25, 2023
REPORT NO. : 2023-U006623
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AA972-0005	REGULATORY STANDARD	DETECTION LIMIT
pH [a]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.8 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	12.0	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	23.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	440	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	5.5	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AA972-0005	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.



JANUARY 31, 2023

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2023-U006623

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JANUARY 19, 2023
SAMPLING TIME : 14:45 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : JANUARY 19, 2023
ANALYTICAL DATE : JANUARY 19-24, 2023
REPORT NO. : 2023-U006624
WORK NO. : 2022-009699
ANALYSIS NO. : T23AA972-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AA972-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	243	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

JANUARY 31, 2023

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TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-16, 2023
REPORT NO. : 2023-U012106
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AC246-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.2 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	410	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	95.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	683	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	0.4	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	19.9	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AC246-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	21	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 BROWN/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

[redacted]

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-16, 2023
REPORT NO. : 2023-U012107
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AC246-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	7.1 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	53.6	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	45.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	351	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	0.2	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	3.0	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	23.6	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเดิมอากาศ บริเวณส่วนตกตะกอน T23AC246-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	6	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BLUE		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL

SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 14:50 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-16, 2023
REPORT NO. : 2023-U012108
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AC246-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.4 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	14.9	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	54.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	433	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	1.5	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	7.5	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AC246-0003		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

FEBRUARY 24, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-16, 2023
REPORT NO. : 2023-U012109
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AC246-0004	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.8 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	32.5	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	18.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	380	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	16.5	≤ 35	1.5

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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AC246-0004		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

FEBRUARY 24, 2023

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NSC -TISI -TIS 17025
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LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-16, 2023
REPORT NO. : 2023-U012110
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AC246-0005	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H^+ B)	6.6 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	13.1	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	9.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM 2540 C	381	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: 4500-Norg C	< LOQ	≤ 35	1.5

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LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AC246-0005	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/CLEAR BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

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500* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

FEBRUARY 21, 2023

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Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

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No.0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : FEBRUARY 9, 2023
SAMPLING TIME : 15:05 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : FEBRUARY 9, 2023
ANALYTICAL DATE : FEBRUARY 9-15, 2023
REPORT NO. : 2023-U012111
WORK NO. : 2022-009699
ANALYSIS NO. : T23AC246-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AC246-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	226	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

FEBRUARY 21, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019593
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AE161-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	8.0 (33°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	2,526	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	4,327	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	668	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	100	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [c]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	8.1	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	105	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AE161-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	5,068	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
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ND : NON-DETECTABLE.

[redacted]

MARCH 21, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019595
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AE161-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.7 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	98.1	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	116	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	338	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	6.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	83.2	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคาร ถังเกรอะกรองเติมอากาศบริเวณส่วนตกตะกอน T23AE161-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

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ND : NON-DETECTABLE.

MARCH 21, 2023

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ANALYSIS REPORT

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CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019598
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AE161-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.0 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	144	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	277	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	250	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	15.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	21.4	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AE161-0003	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 2017.

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ND : NON-DETECTABLE.

MARCH 21, 2023

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LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 14:50 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019599
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AE161-0004	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.0 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	26.5	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	27.0	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	311	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	15.4	≤ 35	1.5

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No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AE161-0004	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

MARCH 21, 2023

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NSC -TISI -TIS 17025
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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019601
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AE161-0005	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.0 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 4500-O G AND PART 5210 B)	29.2	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	358	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	0.2	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	10.3	≤ 35	1.5

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United Analyst and Engineering Consultant Co., Ltd.
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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AE161-0005	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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 (TOTAL DISSOLVED SOLIDS STANDARD VALUE OF TAP WATER QUALITY IS 1,000 mg/L).

ND : NON-DETECTABLE.

MARCH 21, 2023

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Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

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No.0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MARCH 9, 2023
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : MARCH 9, 2023
ANALYTICAL DATE : MARCH 9-16, 2023
REPORT NO. : 2023-U019602
WORK NO. : 2022-009699
ANALYSIS NO. : T23AE161-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AE161-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	217	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

MARCH 21, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:35 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c]
ANALYZED BY

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-20, 2023
REPORT NO. : 2023-U029031
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วนภัตตาคารถังดักไขมัน T23AG224-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.5 (36°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	146	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	31.6	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	312	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	1.4	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	20.3	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AG224-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	6	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

APRIL 24, 2023

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LABORATORY ACCREDITATION BLA-DSS TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-20, 2023
REPORT NO. : 2023-U029032
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AG224-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.4 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	64.5	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	72.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	296	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.6	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	27.0	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AG224-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 2017.

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

ND : NON-DETECTABLE.

APRIL 24, 2023

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LABORATORY ACCREDITATION BLA-DSS TESTING No. 0063

ANALYSIS REPORT

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CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-20, 2023
REPORT NO. : 2023-U029033
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังส้มผัสคลอรีน T23AG224-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.1 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	71.4	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	222	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	328	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	23.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	9.4	≤ 35	1.5

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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AG224-0003	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.



APRIL 24, 2023

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NSC -TISI -TIS 17025
TESTING 0207
TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:20 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-20, 2023
REPORT NO. : 2023-U029034
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AG224-0004	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.3 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	17.1	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	332	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	7.3	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AG224-0004		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

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LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:25 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-20, 2023
REPORT NO. : 2023-U029035
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AG224-0005	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.2 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	14.8	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.0	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	340	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	5.7	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AG224-0005	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/CLEAR BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 2017.

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

ND : NON-DETECTABLE.

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : APRIL 6, 2023
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : APRIL 6, 2023
ANALYTICAL DATE : APRIL 6-17, 2023
REPORT NO. : 2023-U029036
WORK NO. : 2022-009699
ANALYSIS NO. : T23AG224-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AG224-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	212	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-26, 2023
REPORT NO. : 2023-U041652
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AJ104-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	5.8 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	896	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	533	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	580	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [c]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	5.7	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	24.8	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AJ104-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [a]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	504	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			GREY		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.



MAY 30, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-26, 2023
REPORT NO. : 2023-U041653
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเดิมอากาศ บริเวณส่วนตกตะกอน T23AJ104-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.3 (33°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	71.7	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	53.2	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	298	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.3	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	0.64	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	17.2	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AJ104-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

MAY 30, 2023

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2023-U041653

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NSC -TISI -TIS 17025
TESTING 0207

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 13:50 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-26, 2023
REPORT NO. : 2023-U041654
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AJ104-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.0 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	74.6	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	106	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	296	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	6.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	14.2	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AJ104-0003		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

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ND : NON-DETECTABLE.

MAY 30, 2023

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ANALYSIS REPORT

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ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-26, 2023
REPORT NO. : 2023-U041655
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AJ104-0004		
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.9 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	23.9	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	25.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	278	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.2	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	8.7	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AJ104-0004		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

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

ND : NON-DETECTABLE.

MAY 30, 2023

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LABORATORY ACCREDITATION BLA-DSS TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 13:30 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-26, 2023
REPORT NO. : 2023-U041656
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AJ104-0005		
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.8 (34°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	27.1	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	282	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	7.1	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AJ104-0005		
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 2017.

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

ND : NON-DETECTABLE.

MAY 30, 2023

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : MAY 18, 2023
SAMPLING TIME : 13:55 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : MAY 18, 2023
ANALYTICAL DATE : MAY 18-25, 2023
REPORT NO. : 2023-U041657
WORK NO. : 2022-009699
ANALYSIS NO. : T23AJ104-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AJ104-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	194	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 14:00 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-23, 2023
REPORT NO. : 2023-U051479
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AL285-0001	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.8 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1,800	≤ 20	2.0
SUSPENDED SOLIDS [c]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9,312	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	472	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	27.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [c]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	3.4	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	83.6	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำ ส่วนภัตตาคาร ถังดักไขมัน T23AL285-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2,331	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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ND : NON-DETECTABLE.



JUNE 28, 2023

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SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 13:40 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-23, 2023
REPORT NO. : 2023-U051480
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเติมอากาศ บริเวณส่วนตกตะกอน T23AL285-0002	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	7.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	55.0	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	37.8	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	290	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	34.4	≤ 35	1.5

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TESTING No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำส่วน ภัตตาคาร ถังเกรอะ กรองเดิมอากาศ บริเวณส่วนตกตะกอน T23AL285-0002	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

JUNE 28, 2023

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NSC -TISI -TIS 17025
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LABORATORY ACCREDITATION BLA-DSS
TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 13:50 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-23, 2023
REPORT NO. : 2023-U051481
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AL285-0003	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.9 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	96.4	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	127	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	274	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	6.0	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	24.8	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังพักน้ำทิ้งในถังสัมผัสคลอรีน T23AL285-0003	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

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TESTING No. 0063

ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 13:30 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-23, 2023
REPORT NO. : 2023-U051482
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AL285-0004	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.7 (33°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	41.0	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	27.5	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	323	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.6	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	21.6	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดเก็บน้ำระบบบำบัดน้ำเสียรวม ถังแยกกากตะกอน T23AL285-0004	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			 YELLOW/TURBID BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 2017.

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

ND : NON-DETECTABLE.

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-25, 2023
REPORT NO. : 2023-U051483
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AL285-0005	REGULATORY STANDARD	DETECTION LIMIT
pH [c]	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H^+ B)	6.7 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND [a]	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	39.3	≤ 20	2.0
SUSPENDED SOLIDS [a]	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	18.7	≤ 30	5.0
TOTAL DISSOLVED SOLIDS [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	334	500*	25
SETTLEABLE SOLIDS [c]	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
FREE CHLORINE [c]	mg/L Cl_2	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHIDE [b]	mg/L	IODOMETRIC METHOD (SM: PART 4500-S^{2-} F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN [b]	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	17.9	≤ 35	1.5

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT จุดบ่อพักน้ำทิ้งก่อนระบายออกจากโครงการ T23AL285-0005	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE [c]	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : 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 rdEDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 rdEDITION, 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.

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ANALYSIS REPORT

CUSTOMER NAME : BOSTON PARK COMPANY LIMITED
ADDRESS : 333 SRINAKARIN ROAD HUA MAK BANG KAPI BANGKOK 10240
CONTACT INFORMATION : TEL : 0 2378 8000 EXT.4001 e-mail : varinporn_t@grandfourwings.com
SAMPLING SOURCE : THE GRAND FOURWINGS CONVENTION HOTEL
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : JUNE 15, 2023
SAMPLING TIME : 13:10 HOUR
SAMPLING METHOD [c] : GRAB
SAMPLING BY [c] :
ANALYZED BY :

RECEIVED DATE : JUNE 15, 2023
ANALYTICAL DATE : JUNE 15-20, 2023
REPORT NO. : 2023-U051484
WORK NO. : 2022-009699
ANALYSIS NO. : T23AL285-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			WATER SUPPLY T23AL285-0006	
TOTAL DISSOLVED SOLIDS [b]	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	228	25
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
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[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

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