

ผลวิเคราะห์คุณภาพน้ำทิ้งครัว C



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Ref. No. W1419/09/20

Report No. 001

B-Quo-1707/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
 Client Name : Kasemkij Co., Ltd.
 Sampling by : Kasemkij Co., Ltd.

Sampling Date : 22 September 2020
 Received Date : 23 September 2020
 Analytical Date : 23-30 September 2020
 Report Date : 1 October 2020

Parameter	Analytical Method	Kitchen C (Eff)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	6.67	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	35.0	Less than 40
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{total} B.) & Titrimetric Method (4500-NH ₃ C.)	11	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Komonrat Khumkainam)
Scientist



(Wasinee Singuth)
Laboratory Supervisor



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Ref. No. W939/10/20

Report No. 001

B-Quo-2063/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 14 October 2020
Received Date : 15 October 2020
Analytical Date : 15-22 October 2020
Report Date : 26 October 2020

Parameter	Analytical Method	Kitchen C (Eff)	Standard
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O C.)	2	Less than 30

Remark:


Sample Characteristics: Yellow with slightly precipitate

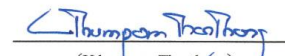
Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Waranya Chanapan)
Scientist


(Uthumporn Thanthong)
Laboratory Supervisor

FLB02/10-11-15/JOB2018



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Ref. No. W1147/10/20

Report No. 001

B-Qao-1944/2020

Wastewater Quality Analysis Report

Project : Cape Parua Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 20 October 2020
Received Date : 21 October 2020
Analytical Date : 21-29 October 2020
Report Date : 2 November 2020

Parameter	Analytical Method	Kitchen C (Bf)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.45	6-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	20.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O C.)	11	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	7.4	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.08	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22nd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Waiyaya Champa)
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(Uthairong Thairong)
Laboratory Supervisor



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Ref. No. W1314/11/20

Report No. 001

D-Que-2185/2020

Wastewater Quality Analysis Report

Project : Cape Parua Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 17 November 2020
Received Date : 18 November 2020
Analytical Date : 18-25 November 2020
Report Date : 27 November 2020

Parameter	Analytical Method	Result C (BT)	Standard
pH	Electrometric Method (4500-B ⁺ B.)	7.16	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-106 °C (2540 D.)	7.6	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O C.)	8	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N ₃ B.) & Titrimetric Method (4500-NH ₃ C.)	0.8	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5530 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22nd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.


(Waranya Chompon)

Scientist


(Uthaisorn Thonthong)

Laboratory Supervisor



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Ref. No. W1165/12/20

Report No. 001

D-Qao-2400/2020

Wastewater Quality Analysis Report

Project : Cape Panna Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 15 December 2020
Received Date : 16 December 2020
Analytical Date : 16-22 December 2020
Report Date : 25 December 2020

Parameter	Analytical Method	Results C (IT)	Standard
pH	Electronic Method (4500-B ⁺ B.)	7.46	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-106 °C (2540 D.)	27.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4600-O C.)	19	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₄ C.)	7.1	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5550 B.)	3	Less than 30
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	330	-

Remark:

Sample Characteristics: Yellow turbid with slightly precipitate

Standard : - Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method : - Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22nd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.


(Nattaporn Sukhrajant)
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(Waiwae Sangsath)
Laboratory Supervisor

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Ref. No. W1420/09/20

Report No. 001

B-Que-1707/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
 Client Name : Kasemkij Co., Ltd.
 Sampling by : Kasemkij Co., Ltd.

Sampling Date : 22 September 2020
 Received Date : 23 September 2020
 Analytical Date : 23-30 September 2020
 Report Date : 1 October 2020

Parameter	Analytical Method	Results E (B.E.)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	6.90	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	27.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O C.)	3	Less than 20
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₄ C.)	2.1	Less than 25
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5550 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.0	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Komonrat Khunkhuan)

Scientist

(Wanee Singsath)

Laboratory Supervisor



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Ref. No. W1148/10/20

Report No. 001

B-Qur-1944/2020

Wastewater Quality Analysis Report

Project : Cape Parus Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 20 October 2020
Received Date : 21 October 2020
Analytical Date : 21-29 October 2020
Report Date : 2 November 2020

Parameter	Analytical Method	Results E (RT)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.56	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	17.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O C.)	2	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{am} B.) & Titrimetric Method (4500-NH ₃ C.)	5.6	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5550 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9221 E.)	<1.6	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22nd Edition, 2017.

Reported results refer to submitted samples only.

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(Waranya Chamapa)
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Ref. No. W1315/11/20

Report No. 001

B-Quo-2185/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 17 November 2020
Received Date : 18 November 2020
Analytical Date : 18-25 November 2020
Report Date : 27 November 2020

Parameter	Analytical Method	Result K (BOD)	Standard
pH	Electrometric Method (4500-H ₊ B.)	7.37	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-106 °C (2540 D.)	21.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Acid Modification (4500-O C.)	2	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N ₃ B.) & Titrimetric Method (4500-NH ₃ C.)	5.5	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 20
Fecal Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9221 B.)	<1.8	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Wanrya Chompan)
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(Uthakorn Thumthong)
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Ref. No. W1166/12/20

Report No. 001

B-Qao-2450/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kaseanjij Co., Ltd.
Sampling by : Kaseanjij Co., Ltd.

Sampling Date : 15 December 2020
Received Date : 16 December 2020
Analytical Date : 16-22 December 2020
Report Date : 25 December 2020

Parameter	Analytical Method	Kitchen E (RM)	Standard
pH	Electroneric Method (4500-H ⁺ B.)	7.52	6-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	27.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Aride Modification (4500-O C.)	11	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{aq} B.) & Titrimetric Method (4500-NH ₃ C.)	7.1	Less than 35
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5530 B.)	2	Less than 20
Focal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	2,200	-

Remark:

Sample Characteristics: Yellow turbid with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to authorized samples only.

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(Nataporn Suktanyart)
Scientist


(Wasinee Singsoth)
Laboratory Supervisor

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Ref. No. W1621/08/20

Report No. 001

H-Qus-1707/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Road
Client Name : Kasemraj Co., Ltd.
Sampling by : Kasemraj Co., Ltd.

Sampling Date : 22 September 2020
Received Date : 23 September 2020
Analytical Date : 23-30 September 2020
Report Date : 1 October 2020

Parameter	Analytical Method	Nursery Plant (DF)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	6.72	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	2.4	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-D C.)	4	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	5.6	Less than 35
Glucose & Oil (mg/L)	Liquid-Liquid Partition-Gravimetric Method (5520 B.)	<2	Less than 1.0
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 30
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9223 B.)	<1.8	-

Remark:

Sample Characteristics: Slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Komonrat Khamkham)

Scientist



(Waiwan Singaath)

Laboratory Supervisor

PL002/19-10-15/000013



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Ref. No. W1149/10/20

Report No. 001

B-Qao-1544/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Flood
Client Name : Kasemrij Co., Ltd.
Sampling by : Kasemrij Co., Ltd.

Sampling Date : 20 October 2020
Received Date : 21 October 2020
Analytical Date : 21-22 October 2020
Report Date : 2 November 2020

Parameter	Analytical Method	Nursery Plant (BIF)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.52	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	7.3	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-D C.)	2	Less than 30
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	0.6	Less than 35
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 20
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.5	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Bidding Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WWP, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Watsanya Chongson)
Scientist


(Uthairat Thanthong)
Laboratory Supervisor



Ref. No. W1316/11/20

Report No. 001

S-Qno-2186/2020

Wastewater Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 17 November 2020
Received Date : 18 November 2020
Analytical Date : 18-25 November 2020
Report Date : 27 November 2020

Parameter	Analytical Method	Nursery Plant (ET)	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.40	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 100-105 °C (2540 D.)	12.3	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Acid Modification (4500-O C.)	<2	Less than 20
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{am} B.) & Titrimetric Method (4500-NH ₃ C.)	7.1	Less than 25
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5620 B.)	<2	Less than 20
Sulfide (mg/L)	Iodometric Method (4500-S ²⁻ F.)	<0.06	Less than 1.0
Fecal Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9221 B.)	<1.8	-

Remarks:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standards (Category B), Notification of the Ministry of Natural Resources and Environment, B.E. 2548

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21st Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.


(Wannysa Chantaporn)
Scientist


(Uthumphorn Thantong)
Laboratory Supervisor



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1/1

Ref. No. W1147/11/20

Report No. 001

B-Qao-2400/2020

Wastewater Quality Analysis Report

Project : Cape Pansa Road
 Client Name : Kasemkij Co., Ltd.
 Sampling by : Kasemkij Co., Ltd.

Sampling Date : 15 December 2020
 Received Date : 16 December 2020
 Analytical Date : 16-22 December 2020
 Report Date : 22 December 2020

Parameter	Analytical Method	Nursery Plant (RT)	Standard
pH	Electronic Method (4500-H ⁺ B.)	7.71	5-9
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	<2.0	Less than 40
BOD ₅ (mg/L)	5 Day BOD Test (2510 B.) & Acid Modification (4500-O C.)	<2	Less than 30
TKN (mg/L)	Macro-Ekjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₄ C.)	7.1	Less than 35
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (8100 B.)	<2	Less than 30
Sulfide (mg/L)	Isokinetic Method (4500-S ²⁻ F.)	<0.05	Less than 1.0
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 B.)	330	-

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Building Effluent Standard (Category II), Notification of the Ministry of Natural Resources and Environment, B.E. 2546

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22nd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.


 (Nataporn Sultsuyarat)
 Scientist


 (Waiwae Singsaok)
 Laboratory Supervisor

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1/1

Ref. No. W1418/06/20
 B-Que-1709/2020

Report No. 001

Sea Water Quality Analysis Report

Project : Cape Panwa Hotel
 Client Name : Kasemkij Co., Ltd.
 Sampling by : Kasemkij Co., Ltd.

Sampling Date : 23 September 2020
 Received Date : 23 September 2020
 Analytical Date : 23-30 September 2020
 Report Date : 1 October 2020

Parameter	Analytical Method	North of Project	Standard
Total Solids (mg/L.)	Total Solids Dried at 103-105 °C (2840 B.)	35,828	-
Total Suspended Solids (mg/L.)	Total Suspended Solids Dried at 103-105 °C (2840 B.)	21.7	-
Dissolved Oxygen (mg/L.)	Azide Modification (4500-O C.)	4.3	More than 4
Grease & Oil (mg/L.)	Liquid-Liquid, Partition-Gravimetric Method (8820 B.)	<2	-
Total Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9221 B.)	110	Less than 1,000

Remark:

Sample Characteristics: Slightly precipitate

Standard = See Water Quality (Category 4), Notification of the National Environment Board, B.E. 2560

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Komnat Khambhuan)
 Scientist



(Wanee Singuth)
 Laboratory Supervisor

PL002/10-11-14/0080015



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Ref. No. W1513/10/20

Report No. 001

B-Qno-1945/2020

Sea Water Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kaseanj Co., Ltd.
Sampling by : Kaseanj Co., Ltd.

Sampling Date : 28 October 2020
Received Date : 29 October 2020
Analytical Date : 29 October - 4 November 2020
Report Date : 5 November 2020

Parameter	Analytical Method	Result of Project	Standard
Total Solids (mg/L.)	Total Solids Dried at 103-105 °C (2540 B.)	35,074	-
Total Suspended Solids (mg/L.)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	14.5	-
Dissolved Oxygen (mg/L.)	Azide Modification (4500-O C.)	4.1	More than 4
Grease & Oil (mg/L.)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	-
Total Coliform Bacteria (MPN/100 ml.)	Multiple-Tube Fermentation Technique (9223 B.)	4.0	Less than 1,000

Remark:

Sample Characteristics: Slightly precipitate

Standard = Sea Water Quality (Category 4), Notification of the National Environment Board, B.E. 2560

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.


(Wannya Chongpan)
Scientist


(Uthairat Thairong)
Laboratory Supervisor

PLB00/10-11-18-REV010



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Ref. No. W1321/11/20

Report No. 001

B-Qee-2186/2020

Sea Water Quality Analysis Report

Project : Cape Parwa Hotel
Client Name : Kasankij Co., Ltd.
Sampling by : Kasankij Co., Ltd.

Sampling Date : 17 November 2020
Received Date : 18 November 2020
Analytical Date : 18-25 November 2020
Report Date : 27 November 2020

Parameter	Analytical Method	North of Project	Standard
Total Solids (mg/L)	Total Solids Dried at 103-105 °C (2540 B.)	23,014	-
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 105-105 °C (2540 B.)	16.1	-
Dissolved Oxygen (mg/L)	Azide Modification (4800-O C.)	4.5	More than 4
Genase & OE (mg/L)	Liquid-Liquid, Partition-Government Method (5520 B.)	<2	-
Total Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 B.)	7.6	Less than 1,000

Remark:

Sample Characteristics: Slightly precipitate

Standard = Sea Water Quality (Category 4), Notification of the National Environment Board, B.E. 2560

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Watsara Chansan)
Scientist


(Uthairong Thantong)
Laboratory Supervisor

PL885/10-11-35/000001



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1/1

Ref. No. W1164/12/20

Report No. 001

B-Qao-2451/2020

Sea Water Quality Analysis Report

Project : Cape Panwa Hotel
Client Name : Kasemkij Co., Ltd.
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 15 December 2020
Received Date : 16 December 2020
Analytical Date : 16-22 December 2020
Report Date : 23 December 2020

Parameter	Analytical Method	Result of Project	Standard
Total Solids (mg/L)	Total Solids Dried at 103-105 °C (2540 B.)	33,624	-
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	22.8	-
Dissolved Oxygen (mg/L)	Azide Modification (4500-O C.)	5.2	More than 4
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	-
Total Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 B.)	76	Less than 1,000

Remark:

Sample Characteristics: Slightly precipitate

Standard = Sea Water Quality (Category 4), Notification of the National Environment Board, B.E. 2560

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

Reported results refer to submitted samples only.

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(Nattaporn Suktumyurt)
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Laboratory Supervisor

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ANALYSIS REPORT

CUSTOMER NAME : KASEMKIJ COMPANY LIMITED (CAPE PANWA HOTEL PHUKET)
ADDRESS : 27, 27/2 MOO 8 SAK DECH ROAD WICHIT MUEANG PHUKET PHUKET 83000
CONTACT INFORMATION : TEL : 0 2233 8989-98 e-mail : kj-qc@kasemkij.com
SAMPLING SOURCE : CAPE PANWA HOTEL
SAMPLE TYPE : WATER
SAMPLING DATE : OCTOBER 28, 2020
SAMPLING TIME : -
SAMPLING METHOD : GRAB
SAMPLING BY : CUSTOMER
ANALYZED BY : MISS PORNPIMOL WAENTHONG
RECEIVED DATE : OCTOBER 29, 2020
ANALYTICAL DATE : OCTOBER 29 - NOVEMBER 4, 2020
REPORT NO. : 2020-U73993
WORK NO. : 2020-001909
ANALYSIS NO. : T20AR461-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			สำรางสาธารณะ T20AR461-0001	
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: 4500-O C AND 5210 B)	ND	2.0
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED AT 103-105 °C (SM: 2540 B)	734	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 9, 2020

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