

## ผลวิเคราะห์คุณภาพน้ำทิ้งครัว C



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Ref. No. W653/01/20

Report No. 001

B-Quo-2315/2019

### Wastewater Quality Analysis Report

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

Sampling Date : 13 January 2020  
 Received Date : 14 January 2020  
 Analytical Date : 14-21 January 2020  
 Report Date : 23 January 2020

Parameter	Analytical Method	Kitchen C (Eff)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	6.97
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	7.8
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	8
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	7.2
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

**Remark:**

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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

*Waranya Chanapan*

(Waranya Chanapan)

Scientist

*Jarinee Nunthavut*

(Jarinee Nunthavut)

Laboratory Manager



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Ref. No. W610/02/20

Report No. 001

B-Quo-0191/2020

### Wastewater Quality Analysis Report

Project : Cape Pinwa Hotel  
Address : Phuket Province  
Client Name : Kasemkij Co., Ltd.  
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 10 February 2020  
Received Date : 11 February 2020  
Analytical Date : 11-18 February 2020  
Report Date : 20 February 2020

Parameter	Analytical Method	Kitchen C (EIT)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.55
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	11.3
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	7
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	5.4
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 F.)	<1.8

#### Remark:

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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

Waranya Chanapan  
(Waranya Chanapan)

Scientist

Jarnee Nanthavisat

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Laboratory Manager



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Ref. No. W1405/03/20

Report No. 001

B-Quo-0381/2020

### Wastewater Quality Analysis Report

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

Sampling Date : 24 March 2020  
Received Date : 25 March 2020  
Analytical Date : 25 March - 1 April 2020  
Report Date : 2 April 2020

Parameter	Analytical Method	Kitchen C (Eff)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.26
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	17.0
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	18
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	9.0
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.6

#### Remark:

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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

Talatchanan Chareonkit

(Talatchanan Chareonkit)

Scientist

(Jarinee Nunthavisut)

Laboratory Manager

## ผลวิเคราะห์คุณภาพน้ำทิ้งครัว E



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Ref. No. W654/01/20

Report No. 001

B-Quo-2915/2019

### Wastewater Quality Analysis Report

Project : Cape Parva Hotel  
Address : Phuket Province  
Client Name : Kasemkij Co., Ltd.  
Sampling by : Kasemkij Co., Ltd.

Sampling Date : 13 January 2020  
Received Date : 14 January 2020  
Analytical Date : 14-21 January 2020  
Report Date : 23 January 2020

Parameter	Analytical Method	Kitchen E (Bt)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.06
Total Suspended Solids (mg/L)	Total Suspended Solids Eried at 103-135 °C (2540 D.)	7.6
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	4
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>am</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	5.4
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

**Remark:**

Sample Characteristics: Clear Yellow with Slightly Precipitate.

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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*Waranya Chompa*

(Waranya Chompa)

Scientist

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Laboratory Manager



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Ref. No. W611/02/20

Report No. 001

B-Qno-0191/2020

### Wastewater Quality Analysis Report

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

Sampling Date : 10 February 2020  
Received Date : 11 February 2020  
Analytical Date : 11-18 February 2020  
Report Date : 20 February 2020

Parameter	Analytical Method	Kitchen E (Eff)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.68
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	2.2
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	4
TKN (mg/L)	Macrm-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	5.4
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

#### Remark:

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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(Waranya Chanapan)  
Scientist

  
(Jarinee Nuntavisut)  
Laboratory Manager

FLB02/10-11-15/10B2005



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Ref. No. W1406/03/20

Report No. 001

B-Quo-0381/2020

### Wastewater Quality Analysis Report

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

Sampling Date : 24 March 2020  
Received Date : 25 March 2020  
Analytical Date : 25 March-1 April 2020  
Report Date : 2 April 2020

Parameter	Analytical Method	Kitchen E (Eff)
pH	Electrometric Method (4500-II <sup>+</sup> B.)	7.23
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	19.0
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 E.) & Azide Modification (4500-O G.)	7
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>4</sub> C.)	7.2
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

**Remark:**

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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Talatchanan Chareonkit

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Scientist

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Laboratory Manager



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Ref. No. W555/01/20

Report No. 001

D Quo 2916/2019

### Wastewater Quality Analysis Report

Project : Cape Panwa Hotel  
 Address : Phuket Province  
 Client Name : Kasetkij Co., Ltd.  
 Sampling by : Kasetkij Co., Ltd.

Sampling Date : 13 January 2020  
 Received Date : 14 January 2020  
 Analytical Date : 14-21 January 2020  
 Report Date : 23 January 2020

Parameter	Analytical Method	Nursery Plant (Lit)
pH	Electrometric Method (4500- $\text{H}^+$ B.)	6.76
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	3.8
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-C G.)	2
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	5.4
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5620 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

**Remark:**

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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(Waranya Chanapan)

Scientist

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Ref. No. W612/02/20

Report No. 001

B-Quo-0191/2020

### Wastewater Quality Analysis Report

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

Sampling Date : 10 February 2020  
Received Date : 11 February 2020  
Analytical Date : 11-18 February 2020  
Report Date : 20 February 2020

Parameter	Analytical Method	Nursery Plant (Eff)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.91
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	3.0
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-O G.)	4
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>m</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	14
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.06
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

**Remark:**

Sample Characteristics: Clear Yellow with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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(Waranya Chanapen)

Scientist



(Jarinee Nuntavisut)  
Laboratory Manager





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Ref. No. W1407/03/20

Report No. 001

B-Quo-0381/2020

### Wastewater Quality Analysis Report

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

Sampling Date : 24 March 2020  
Received Date : 25 March 2020  
Analytical Date : 25 March - 1 April 2020  
Report Date : 2 April 2020

Parameter	Analytical Method	Nursery Plant (EIT)
pH	Electrometric Method (4500-H <sup>+</sup> B.)	7.02
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	2.4
BOD <sub>5</sub> (mg/L)	5 Day BOD Test (5210 B.) & Azide Modification (4500-G G.)	2
TKN (mg/L)	Macro-Kjeldahl Method (4500-N <sub>org</sub> B.) & Titrimetric Method (4500-NH <sub>3</sub> C.)	5.4
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (552C B.)	<2
Sulfide (mg/L)	Iodometric Method (4500-S <sup>2-</sup> F.)	<0.05
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	<1.8

#### Remark:

Sample Characteristics: Clear Yellow with slightly precipitate

Method : Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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Talatchanan Charonlert  
(Talatchanan Charonlert)  
Scientist

Juince Nuntavisut  
(Juince Nuntavisut)  
Laboratory Manager

## ผลวิเคราะห์คุณภาพน้ำทะเล



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Ref. No. W652/01/20

Report No. 001

B-Q10-2916/2019

### Sea Water Quality Analysis Report

Project : Cape Panwa Hotel	Sampling Date : 13 January 2020
Address : Phuket Province	Received Date : 14 January 2020
Client Name : Kasemki Co., Ltd.	Analytical Date : 14-21 January 2020
Sampling by : Kasemki Co., Ltd.	Report Date : 23 January 2020

Parameter	Analytical Method	North of Project
Total Solids (mg/L)	Total Solids Dried at 103-105 °C (2540 B.)	23,880
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	7.8
Dissolved Oxygen (mg/L)	Aside Modification (4500-O C.)	6.7
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Total Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 B.)	<1.8

**Remark:**

Sample Characteristics: Clear with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

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 (Waranya Chanapum)

Scientist



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Ref. No. W599/02/20

Report No. 001

B-Quo-0192/2020

### Sea Water Quality Analysis Report

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

Sampling Date : 10 February 2020  
Received Date : 11 February 2020  
Analytical Date : 11-18 February 2020  
Report Date : 20 February 2020

Parameter	Analytical Method	Result of Project
Total Solids (mg/L)	Total Solids Dried at 103-105 °C (5540 B.)	24,300
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	9.1
Dissolved Oxygen (mg/L)	Azide Modification (4500-D C.)	6.1
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2
Total Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 B.)	<1.8

#### Remark:

Sample Characteristics: Clear with Slightly Precipitate

Method : Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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(Waranya Chunapan)  
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(Jarinee Nuntaveisut)  
Laboratory Manager



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Ref. No. W1404/03/20

Report No. 001

B-Qto-0382/2020

### Sea Water Quality Analysis Report

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

Sampling Date : 24 March 2020  
Received Date : 25 March 2020  
Analytical Date : 25 March-1 April 2020  
Report Date : 2 April 2020

Parameter	Analytical Method	North of Project
Total Solids (mg/L)	Total Solids Dried at 103-105 °C (2540 B.)	35.030
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	14.3
Dissolved Oxygen (mg/L)	Azide Modification (4500-O (-))	4.7
Grease & Oil (mg/L)	Liquid-Liquid, Partitoc-Gravimetric Method (5520 B.)	<2
Total Coliform Bacteria (MPN/100 ml)	Multiple-Tube Fermentation Technique (9221 B.)	79

**Remark:**

Sample Characteristics: Clear with Slightly Precipitate

Method = Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 22<sup>nd</sup> Edition, 2012.

Reported results refer to submitted samples only.

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

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Scientist

(Jarnee Numbavut)  
Laboratory Manager