



## Analysis / Test Report

TESTING  
No.0009

**Report to :** Thai Airways International Public Co., Ltd.  
6, Lanluang Road, Banbat, Promprab,  
Bangkok 10100  
**Attn :** Sunya Choomuang  
**Phone :** 0-2288-7038  
**Fax :** -  
**Email :** sunya.c@thaiairways.com

**Project Name :** Wastewater (Lanluang)  
**Location :**  
**P/O :** 1411048863

**Lot ID: 1739296**

Date Received : Jun 09, 2017  
Date Reported : Jun 16, 2017  
Report Number : 904086-1  
Sampling by: Pichai Boonyong

Page 1 of 3

**Reference Number** 1739296-1  
**Sampling Date** Jun 09, 2017 8:20 AM  
**Sample Description** Wastewater : Effluent  
**Location** SAT Tank  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Jun 10, 2017

Analyte	Unit	LOD	Result	Method
<b>Water Testing</b>				
BOD (5 days at 20 degree C)	mg/L	-	47	Based on APHA (2012), 5210 B
Oil & Grease	mg/L	-	7	Based on APHA (2012), 5520 B
pH	at 25 degree C	-	7.6	APHA (2012), 4500-H (B)
Settleable Solid *	mL/L/hr	-	0.5	Based on APHA (2012), 2540 F
Sulfide *	mg/L	-	6.2	Based on APHA (2012), 4500-S2(C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	mg/L	340	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	mg/L	45.5	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	mg/L	14	Based on APHA (2012), 2540 D

Technical Management

Narin Saiseng  
Supervisor  
ทะเบียนเลขที่ ว-204-จ-4715

Approved by

Yupaporn Chanpleng  
Senior Manager  
ทะเบียนเลขที่ ว-204-ค-4700

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**Date Received :** Jun 09, 2017  
**Date Reported :** Jun 16, 2017  
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**Sampling by:** Pichai Boonyong

Page 2 of 3

**Reference Number** 1739296-2  
**Sampling Date** Jun 09, 2017 8:30 AM  
**Sample Description** Wastewater : Effluent  
**Location** Office  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Jun 10, 2017

Analyte	Unit	LOD	Result	Method
<b>Water Testing</b>				
BOD (5 days at 20 degree C)	mg/L	-	65	Based on APHA (2012), 5210 B
Oil & Grease	mg/L	-	6	Based on APHA (2012), 5520 B
pH	at 25 degree C	-	7.6	APHA (2012), 4500-H (B)
Settleable Solid *	mL/L/hr	-	0.1	Based on APHA (2012), 2540 F
Sulfide *	mg/L	-	4.8	Based on APHA (2012), 4500-S2(C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	-	360	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	0.15	42.7	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	-	14	Based on APHA (2012), 2540 D

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**Project Name :** Wastewater (Lanluang)  
**Location :**  
**P/O :** 1411048863

**Lot ID: 1739296**  
**Date Received :** Jun 09, 2017  
**Date Reported :** Jun 16, 2017  
**Report Number :** 904086-1  
**Sampling by:** Pichai Boonyong

Page 3 of 3

**Reference Number** 1739296-3  
**Sampling Date** Jun 09, 2017 8:35 AM  
**Sample Description** Wastewater : Effluent  
**Location** Car Park  
**Condition of Sample** Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Jun 10, 2017

Analyte		Unit	LOD	Result	Method
<b>Water Testing</b>					
BOD (5 days at 20 degree C)		mg/L	-	41	Based on APHA (2012), 5210 B
Oil & Grease		mg/L	-	8	Based on APHA (2012), 5520 B
pH	at 25 degree C		-	7.7	APHA (2012), 4500-H (B)
Settleable Solid *		mL/L/hr	-	1.0	Based on APHA (2012), 2540 F
Sulfide *		mg/L	-	8.8	Based on APHA (2012), 4500-S2(C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	mg/L	-	400	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	mg/L	0.15	63.4	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	mg/L	-	52	Based on APHA (2012), 2540 D

**Remark :**

1. LOD : Limit of Detection
2. "<" : Lower than LOQ (Limit of Quantitation)
3. Analyte(s) marked \* is/are not included in scope of Accreditation.

**Technical Management**

Narin Saiseng  
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**Approved by**

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**Email :** sunya.c@thaairways.com

**Project Name :** Wastewater (Lanluang)  
**Location :**  
**P/O :** 1411047236

**Lot ID: 1716475**

Date Received : Mar 09, 2017

Date Reported : Mar 16, 2017

Report Number : 854004-1

Sampling by: Pichai Boonyong

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**Reference Number** 1716475-1  
**Sampling Date** Mar 09, 2017 8:10 AM  
**Sample Description** Wastewater : Effluent  
**Location** SAT Tank  
**Condition of Sample** contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Mar 10, 2017

Analyte		Unit	LOD	Result	Method
<b>Water Testing</b>					
BOD (5 days at 20 degree C)		mg/L	-	38	Based on APHA (2012), 5210 B
Oil & Grease		mg/L	-	7	Based on APHA (2012), 5520 B
pH	at 25 degree C		-	7.7	APHA (2012), 4500-H (B)
Settleable Solid *		mL/L/hr	-	0.3	Based on APHA (2012), 2540 F
Sulfide *	as H <sub>2</sub> S	mg/L	-	6.8	Based on APHA (2012), 4500-S <sub>2</sub> (C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	mg/L	-	392	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	mg/L	0.15	46.0	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	mg/L	-	20	Based on APHA (2012), 2540 D

Technical Management

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**Project Name :** Wastewater (Lanluang)  
**Location :**  
**P/O :** 1411047236

**Lot ID: 1716475**  
**Date Received :** Mar 09, 2017  
**Date Reported :** Mar 16, 2017  
**Report Number :** 854004-1  
**Sampling by:** Pichai Boonyong

Page 2 of 3

**Reference Number** 1716475-2  
**Sampling Date** Mar 09, 2017 8:15 AM  
**Sample Description** Wastewater : Effluent  
**Location** Office  
**Condition of Sample** contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Mar 10, 2017

Analyte		Unit	LOD	Result	Method
<b>Water Testing</b>					
BOD (5 days at 20 degree C)		mg/L	-	33	Based on APHA (2012), 5210 B
Oil & Grease		mg/L	-	10	Based on APHA (2012), 5520 B
pH	at 25 degree C		-	7.7	APHA (2012), 4500-H (B)
Settleable Solid *		mL/L/hr	-	0.1	Based on APHA (2012), 2540 F
Sulfide *	as H <sub>2</sub> S	mg/L	-	3.4	Based on APHA (2012), 4500-S <sub>2</sub> (C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	mg/L	-	1320	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	mg/L	0.15	47.5	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	mg/L	-	32	Based on APHA (2012), 2540 D

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**Lot ID: 1716475**

Date Received : Mar 09, 2017

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Report Number : 854004-1

Sampling by: Pichai Boonyong

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**Reference Number** 1716475-3  
**Sampling Date** Mar 09, 2017 8:20 AM  
**Sample Description** Wastewater : Effluent  
**Location** Car Park  
**Condition of Sample** contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)  
**Date of Analysis** Mar 10, 2017

Analyte		Unit	LOD	Result	Method
<b>Water Testing</b>					
BOD (5 days at 20 degree C)		mg/L	-	33	Based on APHA (2012), 5210 B
Oil & Grease		mg/L	-	5	Based on APHA (2012), 5520 B
pH	at 25 degree C		-	7.6	APHA (2012), 4500-H (B)
Settleable Solid *		mL/L/hr	-	0.5	Based on APHA (2012), 2540 F
Sulfide *	as H <sub>2</sub> S	mg/L	-	8.6	Based on APHA (2012), 4500-S <sub>2</sub> (C), (F)
Total Dissolved Solids	Dried at 103-105 degree C	mg/L	-	440	Based on APHA (2012), 2540 C
Total Kjeldahl Nitrogen	as N	mg/L	0.15	70.0	Based on US EPA, Method 351.2
Total Suspended Solids	Dried at 103-105 degree C	mg/L	-	55	Based on APHA (2012), 2540 D

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1. LOD : Limit of Detection
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**Technical Management**

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**Approved by**

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