

## ภาคผนวกที่ 3

### รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

1. คุณภาพอากาศจากปล่องระบาย
2. คุณภาพอากาศในบรรยากาศทั่วไป
3. คุณภาพน้ำทิ้ง
4. ระดับเสียงในบรรยากาศทั่วไป
5. คุณภาพอากาศในพื้นที่ทำงาน
6. ระดับเสียงในพื้นที่ทำงาน
7. ระดับความร้อน

คุณภาพอากาศจากปล่องระบาย



บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 013766/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Stack Description	Sampling Condition
Stack Height from Ground (m) : 37.0	Atmospheric Pressure (mm.Hg) : 758
Diameter (m) : 1.50	Ambient Temperature (°C) : 28
Temperature (°C) : 192	Type of Process : Combustion
Gas Velocity (m/s) : 17.19	Type of Fuel : Biomass
Flow Rate (Nm³/h) : 65965.73	Type of Air Pollution : Cyclone
Oxygen (%) : 7.93	GPS : 47P 0756543 E, 1453976 N
Carbon Dioxide (%) : 13.23	Sampling Date : 18/11/2023
Moisture (%) : 5.53	Received Date : 20/11/2023
Isokinetic (%) : 104.53	Analytical Date : 20-30/11/2023
Excess Air (%) : 61.53	Reported Date : 12/12/2023
Shape : Circle	Sampling By : [REDACTED]
	Analyzed By : [REDACTED]

Location	Parameter	Method of Analysis	Time	Result		Standard	Unit
				% Actual O <sub>2</sub> <sup>1/</sup>	7% O <sub>2</sub> <sup>2/</sup>		
Boiler Chinese No. 2	1. Total Suspended Particulate	Gravimetric Method (US.EPA Method 5)	09:10 a.m.-09:46 a.m.	51	55	320	mg/m <sup>3</sup>
	2. Sulfur Dioxide	Barium-Thorin Titrimetric Method (US.EPA Method 6)	09:47 a.m.-10:07 a.m.	<0.1	<0.1	60	ppm
	3. Oxide of Nitrogen as Nitrogen Dioxide	Phenoldisulfonic Acid Method (US.EPA Method 7)	09:04 a.m.-09:08 a.m.	43	46	200	ppm
	4. Opacity	Ringelmann's Method (US.EPA Method 9)	10:10 a.m.-10:25 a.m.	6.50	-	10 <sup>(1)</sup>	%

Remark : Normal reference conditions are 25 degrees Celsius at 1 atm or 760 mmHg and dry basis, in the actual conditions. With the volume of oxygen in the waste air at real conditions while measuring

: Normal reference condition is 25 degrees Celsius at 1 atm or 760 mmHg and is dry basis, in the actual conditions. With 50% excess air combustion volume or 7% oxygen volume in waste air

Standard : Notification of the Ministry of Industry B.E.2549 (2006)

Standard<sup>(1)</sup> : Notification of the Ministry of Natural Resources and Environment on establishing standards for opacity of smoke smut from establishments That uses a boiler.Prof. 2548 (2005)

: Notification of Ministry of Industry regarding the amount of contaminants in the air emitted from factories, B.E. 2549 (2006)

= Not configured for control.

Technical Manager

(1-100-4859)

12/12/2566



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453  
REPORT NO. : 013767/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Stack Description		Sampling Condition	
Stack Height from Ground (m)	: 37.0	Atmospheric Pressure (mm.Hg)	: 758
Diameter (m)	: 1.50	Ambient Temperature (°C)	: 28
Temperature (°C)	: 192	Type of Process	: Combustion
Gas Velocity (m/s)	: 17.19	Type of Fuel	: Biomass
Flow Rate (Nm <sup>3</sup> /h)	: 65965.73	Type of Air Pollution	: Cyclone
Oxygen (%)	: 7.93	GPS	: 47P 0756543 E, 1453976 N
Carbon Dioxide (%)	: 13.23	Sampling Date	: 18/11/2023
Moisture (%)	: 5.53	Received Date	: 20/11/2023
Isokinetic (%)	: 104.53	Analytical Date	: 20-30/11/2023
Excess Air (%)	: 61.53	Reported Date	: 12/12/2023
Shape	: Circle	Sampling By	: [REDACTED]
		Analyzed By	: -

Location	Parameter	Method of Analysis	Time	Result		Standard	Unit
				% Actual O <sub>2</sub> <sup>1/</sup>	7% O <sub>2</sub> <sup>2/</sup>		
Boiler Chinese No. 2	1. Carbon Monoxide*	Non-Dispersive Infrared Method (US.EPA Method 10)	09:04 a.m.-09:08 a.m.	35	38	690	ppm

Remark : <sup>1/</sup>Normal reference conditions are 25 degrees Celsius at 1 atm or 760 mmHg and dry basis, in the actual conditions.  
With the volume of oxygen in the waste air at real conditions while measuring

: <sup>2/</sup>Normal reference condition is 25 degrees Celsius at 1 atm or 760 mmHg and is dry basis, in the actual conditions.  
With 50% excess air combustion volume or 7% oxygen volume in waste air

\* = Results analyzed by EMEX ASSOCIATION CO., LTD.

Standard : Notification of the Ministry of Industry B.E.2549 (2006)



12/12/2023

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คุณภาพอากาศในบรรยากาศทั่วไป



36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINA

REF.NO. : PM 66/1453

REPORT NO. : 032119/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023					
Received Date	:	24/11/2023	Sampling By	:	[Redacted]					
Analytical Date	:	28/11-07/12/2023	Analyst By	:	[Redacted]					
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)								
		November 2023								
		16-17	17-18	18-19	19-20	20-21	21-22	22-23		
Total Suspended Particulate	Gravimetric Method (US.EPA 802)	0.018	0.031	0.030	0.038	0.026	0.038	0.064	0.33	mg/m <sup>3</sup>

Standard : Notification of the National Environment Board, No.24, B.E.2547



12/12/2023

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ORIGINA

REF .NO. : PM 66/1453

REPORT NO. : 032120/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023					
Received Date	:	24/11/2023	Sampling By	:						
Analytical Date	:	28/11-07/12/2023	Analyst By	:						
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Wat Nong Yai Siritham								
		(UTM : 47P 0758022 E, 1454876 N)								
		November 2023								
		16-17	17-18	18-19	19-20	20-21	21-22	22-23		
Total Suspended Particulate	Gravimetric Method US.EPA 802	0.029	0.021	0.010	0.037	0.027	0.030	0.016	0.33	mg/m <sup>3</sup>

Standard : Notification of the National Environment Board, No.24, B.E.2547



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ORIGINA

REF.NO. : PM 66/1453

REPORT NO. : 032121/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023					
Received Date	:	24/11/2023	Sampling By	:						
Analytical Date	:	28/11-07/12/2023	Analyst By	:						
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Project area								
		(UTM : 47P 0756498 E, 1453688 N)								
		November 2023								
		16-17	17-18	18-19	19-20	20-21	21-22	22-23		
Total Suspended Particulate	Gravimetric Method US.EPA 802	0.127	0.140	0.239	0.172	0.072	0.055	0.067	0.33	mg/m <sup>3</sup>

Standard : Notification of the National Environment Board, No.24, B.E.2547

Technical Manager

12/12/2023



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ORIGINAL

REF .NO. : PM 66/1453  
REPORT NO. : 032122/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (°C) : 33

Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	10:00 a.m.-11:00 a.m.	1.3	1.3	1.3	1.4	1.4	1.3	1.3
	11:00 a.m.-12:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 p.m.-01:00 p.m.	1.4	1.3	1.3	1.3	1.3	1.3	1.3
	01:00 p.m.-02:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 p.m.-04:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	05:00 p.m.-06:00 p.m.	1.4	1.3	1.3	1.3	1.4	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.4	1.3	1.3	1.4	1.3	1.3	1.3
	10:00 p.m.-11:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	11:00 p.m.-12:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 a.m.-01:00 a.m.	1.3	1.4	1.3	1.4	1.3	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.4	1.3	1.3	1.3	1.4	1.3	1.3
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.4	1.3	1.3	1.4	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.4	1.3	1.4	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	06:00 a.m.-07:00 a.m.	1.4	1.4	1.3	1.4	1.3	1.3	1.3
	07:00 a.m.-08:00 a.m.	1.3	1.4	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.4	1.3	1.4	1.4	1.3	1.3	1.5
	09:00 a.m.-10:00 a.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
Average 1 hour max		1.4	1.4	1.4	1.4	1.3	1.3	1.5
Average 1 hour Minimum		1.3	1.3	1.3	1.3	1.4	1.3	1.3
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24 B.E.2547

- = No standard.



12/12/2023



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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032123/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED						
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190						
COORDINATOR	:	ENVIRONMENT DEPARTMENT						
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733						
Sampling Date	:	16-23/11/2023			Report Date	:	12/12/2023	
Received Date	:	24/11/2023			Sampling By	:	[REDACTED]	
Analytical Date	:	28/11-07/12/2023			Analyst By	:	-	
Sampling Condition								
Atmospheric Pressure (mmHg)		:	756		Ambient Temperature (oC)		:	33
Parameter		Result						
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	01:00 p.m.-02:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 p.m.-04:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	05:00 p.m.-06:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10:00 p.m.-11:00 p.m.	1.3	1.2	1.3	1.3	1.3	1.3	1.3
	11:00 p.m.-12:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 a.m.-01:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00- a.m-07:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	07:00 a.m.-08:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 a.m.-10:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10:00 a.m.-11:00 a.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	11:00 a.m.-12:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.4
	12:00 p.m.-01:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.5
Average 1 hour max		1.3	1.3	1.3	1.3	1.4	1.3	1.5
Average 1 hour Minimum		1.3	1.2	1.3	1.3	1.3	1.3	1.3
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.



\*\*\*\*\*

Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032124/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	12:00 p.m.-01:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	01:00 p.m.-02:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	02:00 p.m.-03:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	03:00 p.m.-04:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	04:00 p.m.-05:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	05:00 p.m.-06:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	06:00 p.m.-07:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	07:00 p.m.-08:00 p.m.	1.5	1.4	1.4	1.4	1.4	1.4	1.4
	08:00 p.m.-09:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	09:00 p.m.-10:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	10:00 p.m.-11:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	11:00 p.m.-12:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	12:00 a.m.-01:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	01:00 a.m.-02:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	02:00 a.m.-03:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	03:00 a.m.-04:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	04:00 a.m.-05:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	05:00 a.m.-06:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	06:00 a.m.-07:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	07:00 a.m.-08:00 a.m.	1.4	1.4	1.4	1.4	1.5	1.4	1.4
	08:00 a.m.-09:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	09:00 a.m.-10:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	10:00 a.m.-11:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.5
	11:00 a.m.-12:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Average 1 hour max		1.5	1.4	1.4	1.4	1.5	1.4	1.5
Average 1 hour Minimum		1.4	1.4	1.4	1.4	1.4	1.4	1.4
Average 24 hour		1.4	1.4	1.4	1.4	1.4	1.4	1.4
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

12/12/2023



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Analysis results refer to submitted sample(s) only

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032125/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	10:00 a.m.-11:00 a.m.	28	26	32	30	43	36	42
	11:00 a.m.-12:00 p.m.	29	26	28	32	34	36	38
	12:00 p.m.-01:00 p.m.	29	30	29	32	37	36	41
	01:00 p.m.-02:00 p.m.	30	26	28	31	36	36	38
	02:00 p.m.-03:00 p.m.	30	20	30	30	35	34	37
	03:00 p.m.-04:00 p.m.	30	15	32	30	35	34	37
	04:00 p.m.-05:00 p.m.	30	15	33	30	36	35	37
	05:00 p.m.-06:00 p.m.	31	17	32	37	37	37	41
	06:00 p.m.-07:00 p.m.	31	21	61	37	54	43	42
	07:00 p.m.-08:00 p.m.	30	21	67	42	38	44	41
	08:00 p.m.-09:00 p.m.	31	21	36	34	37	47	40
	09:00 p.m.-10:00 p.m.	31	21	32	32	35	42	36
	10:00 p.m.-11:00 p.m.	30	22	35	45	33	39	25
	11:00 p.m.-12:00 a.m.	30	24	32	34	31	35	34
	12:00 a.m.-01:00 a.m.	31	23	30	33	32	33	35
	01:00 a.m.-02:00 a.m.	27	24	30	29	32	33	34
	02:00 a.m.-03:00 a.m.	29	25	28	29	31	35	35
	03:00 a.m.-04:00 a.m.	29	24	29	29	31	41	36
	04:00 a.m.-05:00 a.m.	30	23	28	32	30	37	35
	05:00 a.m.-06:00 a.m.	29	24	29	31	32	36	38
	06:00 a.m.-07:00 a.m.	29	24	28	31	32	36	36
	07:00 a.m.-08:00 a.m.	29	29	29	35	33	42	40
	08:00 a.m.-09:00 a.m.	30	29	34	36	39	43	40
	09:00 a.m.-10:00 a.m.	30	31	39	37	37	42	39
Average 1 hour max		3.1	3.1	6.7	4.5	5.4	4.7	4.2
Average 1 hour Minimum		2.7	1.5	2.8	2.9	3.0	3.3	2.5
Average 24 hour		3.0	2.3	3.4	3.3	3.5	3.8	3.7
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032126/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	Mr. Jirawat Sookabut
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

Sampling Condition	
Atmospheric Pressure (mmHg)	: 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	01:00 p.m.-02:00 p.m.	1.5	1.9	1.3	1.7	1.8	2.0	2.1
	02:00 p.m.-03:00 p.m.	1.6	2.2	1.4	1.7	1.7	2.0	2.1
	03:00 p.m.-04:00 p.m.	1.8	2.7	1.5	1.9	1.8	2.4	2.2
	04:00 p.m.-05:00 p.m.	1.5	2.7	1.4	1.9	2.4	2.5	2.9
	05:00 p.m.-06:00 p.m.	1.7	2.6	3.3	2.0	2.8	2.6	2.6
	06:00 p.m.-07:00 p.m.	1.5	2.2	3.3	2.1	1.9	2.2	2.5
	07:00 p.m.-08:00 p.m.	2.2	2.2	3.3	1.8	2.2	2.3	2.6
	08:00 p.m.-09:00 p.m.	2.5	3.2	3.4	1.8	2.2	2.6	2.5
	09:00 p.m.-10:00 p.m.	2.8	3.0	2.9	1.8	2.1	2.5	2.5
	10:00 p.m.-11:00 p.m.	3.1	3.0	2.3	2.0	2.0	2.4	2.4
	11:00 p.m.-12:00 a.m.	2.4	3.0	1.9	2.1	1.9	2.5	2.3
	12:00 a.m.-01:00 a.m.	3.0	3.1	1.9	2.3	1.9	2.5	2.4
	01:00 a.m.-02:00 a.m.	2.9	3.0	2.0	2.1	2.6	2.7	2.6
	02:00 a.m.-03:00 a.m.	2.8	3.0	1.4	5.1	2.6	3.0	3.2
	03:00 a.m.-04:00 a.m.	3.2	3.1	1.3	5.6	2.7	2.8	3.3
	04:00 a.m.-05:00 a.m.	2.9	3.1	1.3	2.6	2.3	2.7	3.6
	05:00 a.m.-06:00 a.m.	2.7	1.7	1.3	2.2	2.1	2.4	3.1
	06:00 a.m.-07:00 a.m.	2.1	1.8	1.5	2.4	2.4	2.2	2.8
	07:00 a.m.-08:00 a.m.	1.7	1.2	1.4	2.1	2.4	2.0	2.5
	08:00 a.m.-09:00 a.m.	1.8	1.1	1.5	2.0	2.2	2.2	2.3
	09:00 a.m.-10:00 a.m.	1.8	1.1	1.6	1.9	1.8	2.1	2.2
	10:00 a.m.-11:00 a.m.	1.4	1.1	1.7	1.7	1.8	2.0	2.5
	11:00 a.m.-12:00 p.m.	1.7	1.3	1.6	1.8	1.8	2.0	3.0
	12:00 p.m.-01:00 p.m.	1.6	1.2	1.5	1.8	2.1	2.0	2.6
Average 1 hour max		3.2	3.2	3.4	5.6	2.8	3.0	3.6
Average 1 hour Minimum		1.4	1.1	1.3	1.7	1.7	2.0	2.1
Average 24 hour		2.2	2.3	1.9	2.3	2.2	2.4	2.6
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032127/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED						
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190						
COORDINATOR	:	ENVIRONMENT DEPARTMENT						
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733						
Sampling Date	:	16-23/11/2023			Report Date	:	12/12/2023	
Received Date	:	24/11/2023			Sampling By	:		
Analytical Date	:	28/11-07/12/2023			Analyst By	:	-	
Sampling Condition								
Atmospheric Pressure (mmHg)		:	756		Ambient Temperature (oC)		:	33
Parameter	Time	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	12:00 p.m.-01:00 p.m.	3.0	3.2	3.1	3.5	3.6	3.9	4.0
	01:00 p.m.-02:00 p.m.	3.1	3.3	3.1	3.5	3.9	3.8	4.3
	02:00 p.m.-03:00 p.m.	3.1	2.8	3.1	3.4	3.8	3.8	4.0
	03:00 p.m.-04:00 p.m.	3.1	2.2	3.3	3.3	3.7	3.7	3.9
	04:00 p.m.-05:00 p.m.	3.2	1.8	3.4	3.2	3.8	3.6	3.9
	05:00 p.m.-06:00 p.m.	3.2	1.8	3.6	3.2	3.8	3.7	3.9
	06:00 p.m.-07:00 p.m.	3.2	1.9	3.4	3.9	4.0	3.9	4.3
	07:00 p.m.-08:00 p.m.	3.3	2.3	6.4	3.9	5.6	4.5	4.4
	08:00 p.m.-09:00 p.m.	3.3	2.3	6.9	4.4	4.1	4.6	4.4
	09:00 p.m.-10:00 p.m.	3.4	2.3	3.9	3.6	4.0	4.9	4.2
	10:00 p.m.-11:00 p.m.	3.3	2.3	3.5	3.4	3.7	4.4	3.9
	11:00 p.m.-12:00 a.m.	3.3	2.5	3.7	4.7	3.5	4.1	2.7
	12:00 a.m.-01:00 a.m.	3.3	2.6	3.4	3.7	3.3	3.8	3.6
	01:00 a.m.-02:00 a.m.	3.2	2.5	3.3	3.5	3.5	3.6	3.7
	02:00 a.m.-03:00 a.m.	3.3	2.6	3.2	3.1	3.4	3.5	3.6
	03:00 a.m.-04:00 a.m.	3.4	2.7	3.0	3.1	3.3	3.8	3.7
	04:00 a.m.-05:00 a.m.	3.0	2.6	3.1	3.2	3.3	4.3	3.8
	05:00 a.m.-06:00 a.m.	3.2	2.5	3.1	3.4	3.3	3.9	3.8
	06:00- a.m.-07:00 a.m.	3.1	2.7	3.1	3.3	3.4	3.8	4.0
	07:00 a.m.-08:00 a.m.	3.2	2.7	3.0	3.3	3.4	3.9	3.9
	08:00 a.m.-09:00 a.m.	3.1	3.2	3.1	3.7	3.5	4.4	4.2
	09:00 a.m.-10:00 a.m.	3.1	3.2	3.7	3.8	4.2	4.5	4.2
	10:00 a.m.-11:00 a.m.	3.2	3.3	4.2	3.9	3.9	4.4	4.2
	11:00 a.m.-12:00 p.m.	3.2	3.4	3.2	4.5	3.8	4.4	4.5
Average 1 hour max		3.4	3.4	6.9	4.7	5.6	4.9	4.5
Average 1 hour Minimum		3.0	1.8	3.0	3.1	3.3	3.5	2.7
Average 24 hour		3.2	2.6	3.6	3.6	3.7	4.1	4.0
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.



12/12/2023



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032128/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	Mr.Jirayut Seechabut
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

## Wind Speed (m/s), Wind Direction (0-360°)

Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)

Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
10:00 a.m.-11:00 a.m.	0.4	NNE	0.4	N	0.4	N	0.4	NNE	0.4	ENE	0.4	N	0.4	NE
11:00 a.m.-12:00 p.m.	0.4	NNE	0.4	N	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ENE
12:00 p.m.-01:00 p.m.	0.4	SSE	0.4	NNE	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	N
01:00 p.m.-02:00 p.m.	0.4	NE	0.4	NNE	0.4	ENE	0.4	N	0.4	N	0.4	WNW	0.4	N
02:00 p.m.-03:00 p.m.	0.4	NE	0.4	NNE	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	NE
03:00 p.m.-04:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE
04:00 p.m.-05:00 p.m.	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ENE	0.4	N	0.4	NE
05:00 p.m.-06:00 p.m.	0.4	NE	0.4	ENE	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	E
06:00 p.m.-07:00 p.m.	0.4	ENE	0.4	NE	0.4	ENE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N
07:00 p.m.-08:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	N	0.4	NE	0.4	N
08:00 p.m.-09:00 p.m.	0.4	ENE	0.4	NE	0.4	ENE	0.4	NE	0.4	NNE	0.4	NE	0.4	NNE
09:00 p.m.-10:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	NNW
10:00 p.m.-11:00 p.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	E
11:00 p.m.-12:00 a.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NE	0.4	NE
12:00 a.m.-01:00 a.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NNE
01:00 a.m.-02:00 a.m.	0.4	N	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N
02:00 a.m.-03:00 a.m.	0.4	N	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	N
03:00 a.m.-04:00 a.m.	0.4	N	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NE	0.4	N
04:00 a.m.-05:00 a.m.	0.4	NE	0.4	N	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NNE
05:00 a.m.-06:00 a.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NE
06:00 a.m.-07:00 a.m.	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE
07:00 a.m.-08:00 a.m.	0.4	E	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNW	0.4	ENE	0.4	ENE
08:00 a.m.-09:00 a.m.	0.4	NE	0.4	N	0.4	NNE	0.4	NNE	0.4	NE	0.4	N	0.4	NNE
09:00 a.m.-10:00 a.m.	0.4	NNE	0.4	N	0.4	NNE	0.4	NNE	0.4	NE	0.4	ESE	0.4	NNE

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.



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Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032129/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED													
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190													
COORDINATOR	:	ENVIRONMENT DEPARTMENT													
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733													
Sampling Date	:	16-23/11/2023				Report Date	:	12/12/2023							
Received Date	:	24/11/2023				Sampling By	:	Mr. Jirayut Soobabut							
Analytical Date	:	28/11-07/12/2023				Analyst By	:	-							
Sampling Condition															
Atmospheric Pressure (mmHg)		:	756				Ambient Temperature (oC)		:	33					
Wind Speed (m/s), Wind Direction (0-360°)															
Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)															
Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023		
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	
01:00 p.m.-02:00 p.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.9	WNW	0.4	NNE	0.4	N	
02:00 p.m.-03:00 p.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	WNW	0.4	NNE	0.4	N	
03:00 p.m.-04:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	WNW	0.4	NNE	0.4	N	
04:00 p.m.-05:00 p.m.	0.4	NNE	0.4	NNE	0.4	NNE	0.4	ENE	0.4	WNW	0.4	NNE	0.4	N	
05:00 p.m.-06:00 p.m.	0.4	NNE	0.9	NNE	0.4	NNE	0.4	ENE	0.4	WNW	0.9	NE	0.4	N	
06:00 p.m.-07:00 p.m.	0.9	NE	0.4	NNE	0.9	NNE	0.4	NE	0.9	WNW	0.9	NE	0.4	N	
07:00 p.m.-08:00 p.m.	0.9	N	0.4	NNE	0.4	NNE	0.9	N	0.9	NE	0.9	NE	0.4	NE	
08:00 p.m.-09:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	1.3	NNE	0.4	NE	1.3	N	0.4	N	
09:00 p.m.-10:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	1.3	N	0.4	N	0.9	ENE	0.4	N	
10:00 p.m.-11:00 p.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.9	N	0.4	NNE	0.4	N	0.4	N	
11:00 p.m.-12:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.9	NE	0.4	NNE	0.9	N	0.4	N	
12:00 a.m.-01:00 a.m.	0.4	ENE	0.9	N	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
01:00 a.m.-02:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
02:00 a.m.-03:00 a.m.	0.9	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
03:00 a.m.-04:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
04:00 a.m.-05:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
05:00 a.m.-06:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.9	N	
06:00 a.m.-07:00 a.m.	0.4	ENE	0.4	NNE	0.9	NNE	0.4	NE	1.3	NNE	0.4	N	0.4	N	
07:00 a.m.-08:00 a.m.	0.4	ENE	0.4	NNE	1.3	NNE	0.4	NE	1.3	NNE	1.3	N	0.4	N	
08:00 a.m.-09:00 a.m.	0.9	ENE	0.4	NNE	0.9	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
09:00 a.m.-10:00 a.m.	0.9	NNE	0.9	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	NE	
10:00 a.m.-11:00 a.m.	0.4	NNE	0.4	NNE	0.4	ENE	0.4	N	0.4	NNE	0.4	N	0.4	NE	
11:00 a.m.-12:00 p.m.	0.4	NNE	0.4	NNE	0.4	ENE	0.4	NE	0.4	NNE	0.4	N	0.4	NNE	
12:00 p.m.-01:00 p.m.	0.4	NNE	0.4	NNE	0.4	N	0.4	N	0.4	NNE	0.4	N	0.4	NNE	

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.



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Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032130/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED													
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190													
COORDINATOR	:	ENVIRONMENT DEPARTMENT													
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733													
Sampling Date	:	16-23/11/2023				Report Date	:	12/12/2023							
Received Date	:	24/11/2023				Sampling By	:								
Analytical Date	:	28/11-07/12/2023				Analyst By	:	-							
Sampling Condition															
Atmospheric Pressure (mmHg)		:	756		Ambient Temperature (oC)		:	33							
Wind Speed (m/s), Wind Direction (0-360°)															
Project area (UTM : 47P 0756498 E, 1453688 N)															
Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023		
	WS	WD	WS	WD	W S	WD	WS	WD	WS	WD	WS	WD	WS	WD	
12:00 p.m.-01:00 p.m.	1.3	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	ENE	0.4	NNE	0.4	NE	
01:00 p.m.-02:00 p.m.	3.1	NNE	0.4	NE	0.4	NE	0.4	N	0.4	NE	0.4	N	0.4	NNE	
02:00 p.m.-03:00 p.m.	4.9	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	NNE	0.4	N	0.4	N	
03:00 p.m.-04:00 p.m.	4.9	NNE	0.4	NW	0.4	N	0.4	N	0.4	NNE	0.4	ENE	0.4	ENE	
04:00 p.m.-05:00 p.m.	4.9	NNE	0.4	N	0.4	NNE	0.4	N	0.4	E	0.4	N	0.4	NE	
05:00 p.m.-06:00 p.m.	5.4	NNE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ESE	0.4	N	0.4	NE	
06:00 p.m.-07:00 p.m.	3.6	NE	0.4	NNE	0.4	NE	0.4	N	0.4	NNE	0.4	N	0.4	N	
07:00 p.m.-08:00 p.m.	2.7	NE	0.4	NNE	0.4	N	0.4	N	0.4	N	0.4	N	0.4	NNE	
08:00 p.m.-09:00 p.m.	1.8	NE	0.4	NNE	0.4	ENE	0.4	NE	0.4	NNE	0.4	N	0.4	NNE	
09:00 p.m.-10:00 p.m.	1.3	NE	0.4	NNE	0.4	NE	0.4	NE	0.4	N	0.4	N	0.4	NNE	
10:00 p.m.-11:00 p.m.	1.3	NE	0.4	NNE	0.4	NE	0.4	NE	0.9	NNE	0.4	N	0.4	NNE	
11:00 p.m.-12:00 a.m.	1.8	NE	0.4	NNE	0.4	NE	0.4	NE	0.4	N	0.4	N	0.9	NNE	
12:00 a.m.-01:00 a.m.	0.4	NE	0.4	NNE	0.4	NE	0.4	N	0.4	NE	0.4	N	0.9	N	
01:00 a.m.-02:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.9	NNE	0.4	ENE	0.4	N	0.9	NE	
02:00 a.m.-03:00 a.m.	0.4	ENE	0.4	NNE	0.4	NE	0.4	N	0.9	NNW	0.4	N	0.4	NE	
03:00 a.m.-04:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.4	N	0.9	NNW	0.4	N	0.4	NE	
04:00 a.m.-05:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.4	NE	0.9	NNW	0.4	N	0.4	N	
05:00 a.m.-06:00 a.m.	0.4	S	0.4	NE	0.4	NE	0.4	NE	0.9	NNW	0.4	NNW	0.9	W	
06:00 a.m.-07:00 a.m.	0.4	S	0.4	NE	0.4	N	0.4	ENE	0.9	NNW	0.4	NE	0.4	NE	
07:00 a.m.-08:00 a.m.	0.4	S	0.4	NE	0.4	N	0.4	NE	0.9	NNW	0.4	E	0.4	WSW	
08:00 a.m.-09:00 a.m.	0.4	S	0.4	NE	0.4	NE	0.4	NNW	0.4	N	0.4	NNE	0.4	NNW	
09:00 a.m.-10:00 a.m.	0.4	S	0.4	NNW	0.4	N	0.4	N	0.4	ENE	0.4	NE	0.4	N	
10:00 a.m.-11:00 a.m.	0.4	S	0.4	NNW	0.4	NNW	0.4	NNE	0.4	N	0.4	NE	0.4	N	
11:00 a.m.-12:00 p.m.	0.4	N	0.4	N	0.4	NNW	0.4	N	0.4	N	0.4	N	0.4	N	

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.



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Analysis results refer to submitted sample(s) only

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คุณภาพน้ำทิ้ง



บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ต้นฉบับ

REF.NO. : PM 66/0087-7

REPORT NO. : 052156/2023

## รายงานผลการวิเคราะห์น้ำทิ้ง

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หมายเหตุ :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, Edition 23<sup>rd</sup>, 2017.

\* = หมายถึง ผลการทดสอบ/ส่วนที่อยู่ในขอบข่ายการรับรอง

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen &lt;10.0 mg/L)

มาตรฐาน : ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากโรงงาน พ.ศ. 2560

- = ไม่มีมาตรฐานกำหนด

Technical Manager

(ว-100-ค-4859)

25/07/2566



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ผลวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์ผลทดสอบว่าทดสอบตามตัวอย่างที่ได้รับเท่านั้น  
ห้ามคัดลอกหรือทำสำเนารายงานผลการวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากห้องปฏิบัติการเป็นลายลักษณ์อักษร





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,  
Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ต้นฉบับ

REF.NO. : PM 66/0087-8

REPORT NO. : 052334/2023

## รายงานผลการวิเคราะห์น้ำทิ้ง

ชื่อลูกค้า	: บริษัท พี.เอส.ซี. สตาร์ช โปรดักส์ จำกัด (มหาชน)			
สถานที่	: 999 หมู่ 5 ตำบลหนองใหญ่ อำเภอนองใหญ่ จังหวัดชลบุรี 20190			
ผู้ประสานงาน	: แผนกสิ่งแวดล้อม			
ข้อมูลการติดต่อ	: โทรศัพท์ 038 219730-4 โทรสาร 038 219733			
วันที่เก็บตัวอย่าง	: 15/08/2566	วันที่รายงานผล	: 29/08/2566	
วันที่รับตัวอย่าง	: 15/08/2566	เจ้าหน้าที่เก็บตัวอย่าง	: [REDACTED]	
วันที่วิเคราะห์	: 16-24/08/2566	เจ้าหน้าที่ทดสอบ	: [REDACTED]	
ดัชนีที่ตรวจวิเคราะห์	วิธีวิเคราะห์	ผลการวิเคราะห์	มาตรฐาน	หน่วย
		น้ำเสียหลังผ่านระบบบำบัด (บ่อ 8)		
เวลาเก็บตัวอย่าง	-	07:00	-	น.
สภาพตัวอย่าง	Observation	ขุ่นเขียว ตะกอนเล็กน้อย	-	-
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	8.2	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	30	40	°C
3. BOD <sub>5</sub>	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	2	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	18.5	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sup>2-</sup> -F)	<0.06	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	<40	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	<LOQ	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	442	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	0.005	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L

หมายเหตุ :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, Edition 23<sup>rd</sup>, 2017.

\* = หมายถึง ผลการทดสอบ/ส่วนที่อยู่ในขอบข่ายการรับรอง

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen &lt;10.0 mg/L)

มาตรฐาน : ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากโรงงาน พ.ศ. 2560

- = ไม่มีมาตรฐานกำหนด



29/08/2566

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ผลวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์ผลทดสอบว่าทดสอบตามตัวอย่างที่ได้รับเท่านั้น  
ห้ามคัดลอกหรือทำสำเนารายงานผลการวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากห้องปฏิบัติการเป็นลายลักษณ์อักษร





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuaatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ต้นฉบับ

REF.NO. : PM 66/0087-9

REPORT NO. : 052731/2023

## รายงานผลการวิเคราะห์น้ำทิ้ง

ชื่อลูกค้า	: บริษัท พี.เอส.ซี. สตาร์ช โปรดักส์ จำกัด (มหาชน)			
สถานที่	: 999 หมู่ 5 ตำบลหนองใหญ่ อำเภอนองใหญ่ จังหวัดชลบุรี 20190			
ผู้ประสานงาน	: แผนกสิ่งแวดล้อม			
ข้อมูลการติดต่อ	: โทรศัพท์ 038 219730-4 โทรสาร 038 219733			
วันที่เก็บตัวอย่าง	: 11/09/2566	วันที่รายงานผล	: 25/09/2566	
วันที่รับตัวอย่าง	: 11/09/2566	เจ้าหน้าที่เก็บตัวอย่าง	: น. [REDACTED]	
วันที่วิเคราะห์	: 12-20/09/2566	เจ้าหน้าที่ทดสอบ	: น. [REDACTED]	

ดัชนีที่ตรวจวิเคราะห์	วิธีวิเคราะห์	ผลการวิเคราะห์	มาตรฐาน	หน่วย
		น้ำเสียก่อนเข้าระบบบำบัด (CL2)		
เวลาเก็บตัวอย่าง	-	13:40	-	น.
สภาพตัวอย่าง	Observation	ขุ่นน้ำตาล ตะกอนมาก	-	-
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	8.4	-	-
2. Temperature	Laboratory and Field Method (2550 B)	30	-	°C
3. BOD <sub>5</sub>	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	338	-	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	685	-	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sup>2-</sup> -F)	1.4	-	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	1,265	-	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	49.7	-	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	3,500	-	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	-	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	-	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	-	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L

หมายเหตุ :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23<sup>rd</sup>, 2017.

\* = หมายถึง ผลการทดสอบ/ส่วนที่อยู่ในขอบข่ายการรับรอง

- = ไม่มีมาตรฐานกำหนด



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ผลวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ตรวจวิเคราะห์ผลทดสอบตามที่ระบุไว้เท่านั้น  
ห้ามคัดลอกหรือทำสำเนารายงานผลการวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากห้องปฏิบัติการเป็นลายลักษณ์อักษร

MET-F-7.8-06/Rev.02/02-08-64





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ต้นฉบับ

REF.NO. : PM 66/0087-9

REPORT NO. : 052732/2023

## รายงานผลการวิเคราะห์น้ำทิ้ง

ชื่อลูกค้า	: บริษัท พี.เอส.ซี. สตาร์ช โปรดักส์ จำกัด (มหาชน)			
สถานที่	: 999 หมู่ 5 ตำบลหนองใหญ่ อำเภอนองใหญ่ จังหวัดชลบุรี 20190			
ผู้ประสานงาน	: แผนกสิ่งแวดล้อม			
ข้อมูลการติดต่อ	: โทรศัพท์ 038 219730-4 โทรสาร 038 219733			
วันที่เก็บตัวอย่าง	: 11/09/2566	วันที่รายงานผล	: 25/09/2566	
วันที่รับตัวอย่าง	: 11/09/2566	เจ้าหน้าที่เก็บตัวอย่าง	: [REDACTED]	
วันที่วิเคราะห์	: 12-20/09/2566	เจ้าหน้าที่ทดสอบ	: [REDACTED]	
ดัชนีที่ตรวจวิเคราะห์	วิธีวิเคราะห์	ผลการวิเคราะห์	มาตรฐาน	หน่วย
		น้ำเสียหลังผ่านระบบบำบัด (บ่อ 8)		
เวลาเก็บตัวอย่าง	-	13:35	-	น.
สภาพตัวอย่าง	Observation	ขุ่นเหลือง ตะกอนเล็กน้อย	-	-
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	8.3	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	28	40	°C
3. BOD <sub>5</sub>	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	3	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	17.1	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sub>2</sub> <sup>-</sup> -F)	<0.06	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	57	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	<LOQ	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	522	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L

หมายเหตุ :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23<sup>rd</sup>, 2017.

\* = หมายถึง ผลการทดสอบ/ส่วนที่อยู่ในขอบข่ายการรับรอง

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen &lt;10.0 mg/L)

มาตรฐาน : ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากโรงงาน พ.ศ. 2560

- = ไม่มีมาตรฐานกำหนด

\*\*\*\*\*

ผลวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์ผลทดสอบว่าทดสอบตามตัวอย่างที่ได้รับเท่านั้น  
ห้ามคัดลอกหรือทำสำเนารายงานผลการวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากห้องปฏิบัติการเป็นลายลักษณ์อักษร

MET-F-7.8-06/Rev.02/02-08-64





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ต้นฉบับ

REF.NO. : PM 66/0087-10

REPORT NO. : 053095/2023

## รายงานผลการวิเคราะห์น้ำทิ้ง

ชื่อลูกค้า	: บริษัท พี.เอส.ซี. สตาร์ช โปรดักส์ จำกัด (มหาชน)			
สถานที่	: 999 หมู่ 5 ตำบลหนองใหญ่ อำเภอนองใหญ่ จังหวัดชลบุรี 20190			
ผู้ประสานงาน	: แผนกสิ่งแวดล้อม			
ข้อมูลการติดต่อ	: โทรศัพท์ 038 219730-4 โทรสาร 038 219733			
วันที่เก็บตัวอย่าง	: 09/10/2566	วันที่รายงานผล	: 24/10/2566	
วันที่รับตัวอย่าง	: 09/10/2566	เจ้าหน้าที่เก็บตัวอย่าง	:	
วันที่วิเคราะห์	: 10-19/10/2566	เจ้าหน้าที่ทดสอบ	:	

ดัชนีที่ตรวจวิเคราะห์	วิธีวิเคราะห์	ผลการวิเคราะห์	มาตรฐาน	หน่วย
		น้ำเสียหลังผ่านระบบบำบัด (บ่อ 8)		
เวลาเก็บตัวอย่าง	-	14:02	-	น.
สภาพตัวอย่าง	Observation	ขุ่นเหลือง ตะกอนเล็กน้อย	-	-
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	8.4	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	30	40	°C
3. BOD <sub>5</sub>	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	44	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	18.3	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sup>2-</sup> -F)	0.09	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	159	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	15.3	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	465	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L

หมายเหตุ :  
 Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, Edition 23<sup>rd</sup>, 2017.  
 \* = หมายถึง ผลการทดสอบ/ส่วนที่อยู่ในขอบข่ายการรับรอง  
 มาตรฐาน : ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากโรงงาน พ.ศ. 2560  
 - = ไม่มีมาตรฐานกำหนด



\*\*\*\*\*

ผลวิเคราะห์นี้รับรองเฉพาะตัวอย่างที่ได้ทำการวิเคราะห์ผลทดสอบว่าทดสอบตามตัวอย่างที่ได้รับเท่านั้น  
 ห้ามคัดลอกหรือทำสำเนารายงานผลการวิเคราะห์เพียงบางส่วนโดยไม่ได้รับอนุญาตจากห้องปฏิบัติการเป็นลายลักษณ์อักษร

MET-F-7.8-06/Rev.02/02-08-64





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,  
Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ORIGINAL

REF.NO. : PM 66/0087-11

REPORT NO. : 053520/2023

## ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME

:

P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED

ADDRESS

:

999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190

COORDINATOR

:

ENVIRONMENT DEPARTMENT

CONTACT INFORMATION

:

TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

SAMPLING DATE

:

20/11/2023

REPORT DATE

:

06/12/2023

RECEIVED DATE

:

21/11/2023

SAMPLING BY

:

ANALYTICAL DATE

:

21-30/11/2023

ANALYZED BY

:

PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT
		Effluence (No.8 Pit)		
SAMPLING TIME	-	10:00	-	a.m.
SAMPLE CONDITION	Observation	Brown Turbid, Slightly SS	-	-
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	7.1	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	24	40	°C
3. BOD <sub>5</sub>	5-Day BOD test(5210 B), Azide Modification Method (4500-O-C)	3	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	12.0	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sup>2</sup> -F)	<0.06	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	58	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	10.4	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	375	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	0.001	-	mg/L

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23<sup>rd</sup>, 2017.

\* = Test result / Analysis Report within the scope of certification.

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.



(1-100-H-4839)

06/12/2023

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Analysis results refer to submitted sample(s) only

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MET-F-7.8-07/Rev.02/02-08-64





บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

TESTING  
No.0198

ORIGINAL

REF.NO. : PM 66/0087-12

REPORT NO. : 053825/2023

## ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED			
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190			
COORDINATOR	:	ENVIRONMENT DEPARTMENT			
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733			
SAMPLING DATE	:	15/12/2023	REPORT DATE	:	27/12/2023
RECEIVED DATE	:	15/12/2023	SAMPLING BY	:	
ANALYTICAL DATE	:	18-27/12/2023	ANALYZED BY	:	
PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT	
		Effluence (No.8 Pit)			
SAMPLING TIME	-	01:35	-	p.m.	
SAMPLE CONDITION	Observation	Brown Turbid, Slightly SS	-	-	
1. pH	Electrometric Method (4500-H <sup>+</sup> -B)	7.3	5.5-9.0	-	
2. Temperature	Laboratory and Field Method (2550 B)	35	40	°C	
3. BOD <sub>5</sub>	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	5	20	mg/L	
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	18.8	50	mg/L	
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S <sup>2-</sup> -F)	<0.06	1.0	mg/L	
6. COD	Closed Reflux, Titrimetric Method (5220 C)	52	120	mg/L	
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH <sub>3</sub> -C & 4500-Norg-C)	11.3	100	mg/L	
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	519	3,000	mg/L	
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L	
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L	
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L	
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L	

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23<sup>rd</sup>, 2017.

\* = Test result / Analysis Report within the scope of certification.

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.



27/12/2023

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Analysis results refer to submitted sample(s) only

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MET-F-7.8-07/Rev.02/02-08-64

ระดับเสียงในบรรยากาศทั่วไป





36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINA

REF.NO. : PM 66/1453

REPORT NO. : 032119/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023					
Received Date	:	24/11/2023	Sampling By	:						
Analytical Date	:	28/11-07/12/2023	Analyst By	:						
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)								
		November 2023								
		16-17	17-18	18-19	19-20	20-21	21-22	22-23		
Total Suspended Particulate	Gravimetric Method (US.EPA 802)	0.018	0.031	0.030	0.038	0.026	0.038	0.064	0.33	mg/m <sup>3</sup>

Standard : Notification of the National Environment Board, No.24, B.E.2547



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Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINA

REF .NO. : PM 66/1453

REPORT NO. : 032120/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED									
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190									
COORDINATOR	:	ENVIRONMENT DEPARTMENT									
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733									
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023						
Received Date	:	24/11/2023	Sampling By	:	M [REDACTED]						
Analytical Date	:	28/11-07/12/2023	Analyst By	:	M [REDACTED]						
Sampling Condition											
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33				
Parameter	Method of Analysis	Result							Result	Standard	
		Wat Nong Yai Siritham									
		(UTM : 47P 0758022 E, 1454876 N)									
		November 2023									
		16-17	17-18	18-19	19-20	20-21	21-22	22-23			
Total Suspended Particulate	Gravimetric Method US.EPA 802	0.029	0.021	0.010	0.037	0.027	0.030	0.016	0.33	mg/m <sup>3</sup>	

Standard : Notification of the National Environment Board, No.24, B.E.2547



12/12/2023



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Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINA

REF.NO. : PM 66/1453

REPORT NO. : 032121/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED									
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190									
COORDINATOR	:	ENVIRONMENT DEPARTMENT									
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733									
Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023						
Received Date	:	24/11/2023	Sampling By	:							
Analytical Date	:	28/11-07/12/2023	Analyst By	:							
Sampling Condition											
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33				
Parameter	Method of Analysis	Result							Result	Standard	
		Project area									
		(UTM : 47P 0756498 E, 1453688 N)									
		November 2023									
		16-17	17-18	18-19	19-20	20-21	21-22	22-23			
Total Suspended Particulate	Gravimetric Method US.EPA 802	0.127	0.140	0.239	0.172	0.072	0.055	0.067	0.33	mg/m <sup>3</sup>	

Standard : Notification of the National Environment Board, No.24, B.E.2547

Technical Manager

12/12/2023



\*\*\*\*\*

Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF .NO. : PM 66/1453  
REPORT NO. : 032122/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (°C) : 33

Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	10:00 a.m.-11:00 a.m.	1.3	1.3	1.3	1.4	1.4	1.3	1.3
	11:00 a.m.-12:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 p.m.-01:00 p.m.	1.4	1.3	1.3	1.3	1.3	1.3	1.3
	01:00 p.m.-02:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 p.m.-04:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	05:00 p.m.-06:00 p.m.	1.4	1.3	1.3	1.3	1.4	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.4	1.3	1.3	1.4	1.3	1.3	1.3
	10:00 p.m.-11:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	11:00 p.m.-12:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 a.m.-01:00 a.m.	1.3	1.4	1.3	1.4	1.3	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.4	1.3	1.3	1.3	1.4	1.3	1.3
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.4	1.3	1.3	1.4	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.4	1.3	1.4	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	06:00 a.m.-07:00 a.m.	1.4	1.4	1.3	1.4	1.3	1.3	1.3
	07:00 a.m.-08:00 a.m.	1.3	1.4	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.4	1.3	1.4	1.4	1.3	1.3	1.5
	09:00 a.m.-10:00 a.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
Average 1 hour max		1.4	1.4	1.4	1.4	1.3	1.3	1.5
Average 1 hour Minimum		1.3	1.3	1.3	1.3	1.4	1.3	1.3
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24 B.E.2547

- = No standard.



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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032123/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

Sampling Condition	
Atmospheric Pressure (mmHg)	: 756 Ambient Temperature (oC) : 33

Parameter		Result						
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	01:00 p.m.-02:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 p.m.-04:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	05:00 p.m.-06:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10:00 p.m.-11:00 p.m.	1.3	1.2	1.3	1.3	1.3	1.3	1.3
	11:00 p.m.-12:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12:00 a.m.-01:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00 a.m.-07:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	07:00 a.m.-08:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 a.m.-10:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10:00 a.m.-11:00 a.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	11:00 a.m.-12:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.4
	12:00 p.m.-01:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.5
Average 1 hour max		1.3	1.3	1.3	1.3	1.4	1.3	1.5
Average 1 hour Minimum		1.3	1.2	1.3	1.3	1.3	1.3	1.3
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032124/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Nitrogen Dioxide	12:00 p.m.-01:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	01:00 p.m.-02:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	02:00 p.m.-03:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	03:00 p.m.-04:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	04:00 p.m.-05:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	05:00 p.m.-06:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	06:00 p.m.-07:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	07:00 p.m.-08:00 p.m.	1.5	1.4	1.4	1.4	1.4	1.4	1.4
	08:00 p.m.-09:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	09:00 p.m.-10:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	10:00 p.m.-11:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	11:00 p.m.-12:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	12:00 a.m.-01:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	01:00 a.m.-02:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	02:00 a.m.-03:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	03:00 a.m.-04:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	04:00 a.m.-05:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	05:00 a.m.-06:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	06:00 a.m.-07:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	07:00 a.m.-08:00 a.m.	1.4	1.4	1.4	1.4	1.5	1.4	1.4
	08:00 a.m.-09:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	09:00 a.m.-10:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	10:00 a.m.-11:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.5
	11:00 a.m.-12:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Average 1 hour max		1.5	1.4	1.4	1.4	1.5	1.4	1.5
Average 1 hour Minimum		1.4	1.4	1.4	1.4	1.4	1.4	1.4
Average 24 hour		1.4	1.4	1.4	1.4	1.4	1.4	1.4
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board No 24-BF 2547

- = No standard.



12/12/2023



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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032125/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	<del>Mr. Jirayut Seehabut</del>
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	10:00 a.m.-11:00 a.m.	2.8	2.6	3.2	3.0	4.3	3.6	4.2
	11:00 a.m.-12:00 p.m.	2.9	2.6	2.8	3.2	3.4	3.6	3.8
	12:00 p.m.-01:00 p.m.	2.9	3.0	2.9	3.2	3.7	3.6	4.1
	01:00 p.m.-02:00 p.m.	3.0	2.6	2.8	3.1	3.6	3.6	3.8
	02:00 p.m.-03:00 p.m.	3.0	2.0	3.0	3.0	3.5	3.4	3.7
	03:00 p.m.-04:00 p.m.	3.0	1.5	3.2	3.0	3.5	3.4	3.7
	04:00 p.m.-05:00 p.m.	3.0	1.5	3.3	3.0	3.6	3.5	3.7
	05:00 p.m.-06:00 p.m.	3.1	1.7	3.2	3.7	3.7	3.7	4.1
	06:00 p.m.-07:00 p.m.	3.1	2.1	6.1	3.7	5.4	4.3	4.2
	07:00 p.m.-08:00 p.m.	3.0	2.1	6.7	4.2	3.8	4.4	4.1
	08:00 p.m.-09:00 p.m.	3.1	2.1	3.6	3.4	3.7	4.7	4.0
	09:00 p.m.-10:00 p.m.	3.1	2.1	3.2	3.2	3.5	4.2	3.6
	10:00 p.m.-11:00 p.m.	3.0	2.2	3.5	4.5	3.3	3.9	2.5
	11:00 p.m.-12:00 a.m.	3.0	2.4	3.2	3.4	3.1	3.5	3.4
	12:00 a.m.-01:00 a.m.	3.1	2.3	3.0	3.3	3.2	3.3	3.5
	01:00 a.m.-02:00 a.m.	2.7	2.4	3.0	2.9	3.2	3.3	3.4
	02:00 a.m.-03:00 a.m.	2.9	2.5	2.8	2.9	3.1	3.5	3.5
	03:00 a.m.-04:00 a.m.	2.9	2.4	2.9	2.9	3.1	4.1	3.6
	04:00 a.m.-05:00 a.m.	3.0	2.3	2.8	3.2	3.0	3.7	3.5
	05:00 a.m.-06:00 a.m.	2.9	2.4	2.9	3.1	3.2	3.6	3.8
	06:00 a.m.-07:00 a.m.	2.9	2.4	2.8	3.1	3.2	3.6	3.6
	07:00 a.m.-08:00 a.m.	2.9	2.9	2.9	3.5	3.3	4.2	4.0
	08:00 a.m.-09:00 a.m.	3.0	2.9	3.4	3.6	3.9	4.3	4.0
	09:00 a.m.-10:00 a.m.	3.0	3.1	3.9	3.7	3.7	4.2	3.9
Average 1 hour max		3.1	3.1	6.7	4.5	5.4	4.7	4.2
Average 1 hour Minimum		2.7	1.5	2.8	2.9	3.0	3.3	2.5
Average 24 hour		3.0	2.3	3.4	3.3	3.5	3.8	3.7
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032126/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result						
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	01:00 p.m.-02:00 p.m.	1.5	1.9	1.3	1.7	1.8	2.0	2.1
	02:00 p.m.-03:00 p.m.	1.6	2.2	1.4	1.7	1.7	2.0	2.1
	03:00 p.m.-04:00 p.m.	1.8	2.7	1.5	1.9	1.8	2.4	2.2
	04:00 p.m.-05:00 p.m.	1.5	2.7	1.4	1.9	2.4	2.5	2.9
	05:00 p.m.-06:00 p.m.	1.7	2.6	3.3	2.0	2.8	2.6	2.6
	06:00 p.m.-07:00 p.m.	1.5	2.2	3.3	2.1	1.9	2.2	2.5
	07:00 p.m.-08:00 p.m.	2.2	2.2	3.3	1.8	2.2	2.3	2.6
	08:00 p.m.-09:00 p.m.	2.5	3.2	3.4	1.8	2.2	2.6	2.5
	09:00 p.m.-10:00 p.m.	2.8	3.0	2.9	1.8	2.1	2.5	2.5
	10:00 p.m.-11:00 p.m.	3.1	3.0	2.3	2.0	2.0	2.4	2.4
	11:00 p.m.-12:00 a.m.	2.4	3.0	1.9	2.1	1.9	2.5	2.3
	12:00 a.m.-01:00 a.m.	3.0	3.1	1.9	2.3	1.9	2.5	2.4
	01:00 a.m.-02:00 a.m.	2.9	3.0	2.0	2.1	2.6	2.7	2.6
	02:00 a.m.-03:00 a.m.	2.8	3.0	1.4	5.1	2.6	3.0	3.2
	03:00 a.m.-04:00 a.m.	3.2	3.1	1.3	5.6	2.7	2.8	3.3
	04:00 a.m.-05:00 a.m.	2.9	3.1	1.3	2.6	2.3	2.7	3.6
	05:00 a.m.-06:00 a.m.	2.7	1.7	1.3	2.2	2.1	2.4	3.1
	06:00 a.m.-07:00 a.m.	2.1	1.8	1.5	2.4	2.4	2.2	2.8
	07:00 a.m.-08:00 a.m.	1.7	1.2	1.4	2.1	2.4	2.0	2.5
	08:00 a.m.-09:00 a.m.	1.8	1.1	1.5	2.0	2.2	2.2	2.3
	09:00 a.m.-10:00 a.m.	1.8	1.1	1.6	1.9	1.8	2.1	2.2
	10:00 a.m.-11:00 a.m.	1.4	1.1	1.7	1.7	1.8	2.0	2.5
	11:00 a.m.-12:00 p.m.	1.7	1.3	1.6	1.8	1.8	2.0	3.0
	12:00 p.m.-01:00 p.m.	1.6	1.2	1.5	1.8	2.1	2.0	2.6
Average 1 hour max		3.2	3.2	3.4	5.6	2.8	3.0	3.6
Average 1 hour Minimum		1.4	1.1	1.3	1.7	1.7	2.0	2.1
Average 24 hour		2.2	2.3	1.9	2.3	2.2	2.4	2.6
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

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12/12/2023



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Analysis results refer to submitted sample(s) only

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032127/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg)	:	756	Ambient Temperature (oC)	:	33
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Parameter	Time	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		16-17/11/2023	17-18/11/2023	18-19/11/2023	19-20/11/2023	20-21/11/2023	21-22/11/2023	22-23/11/2023
Sulfur Dioxide	12:00 p.m.-01:00 p.m.	3.0	3.2	3.1	3.5	3.6	3.9	4.0
	01:00 p.m.-02:00 p.m.	3.1	3.3	3.1	3.5	3.9	3.8	4.3
	02:00 p.m.-03:00 p.m.	3.1	2.8	3.1	3.4	3.8	3.8	4.0
	03:00 p.m.-04:00 p.m.	3.1	2.2	3.3	3.3	3.7	3.7	3.9
	04:00 p.m.-05:00 p.m.	3.2	1.8	3.4	3.2	3.8	3.6	3.9
	05:00 p.m.-06:00 p.m.	3.2	1.8	3.6	3.2	3.8	3.7	3.9
	06:00 p.m.-07:00 p.m.	3.2	1.9	3.4	3.9	4.0	3.9	4.3
	07:00 p.m.-08:00 p.m.	3.3	2.3	6.4	3.9	5.6	4.5	4.4
	08:00 p.m.-09:00 p.m.	3.3	2.3	6.9	4.4	4.1	4.6	4.4
	09:00 p.m.-10:00 p.m.	3.4	2.3	3.9	3.6	4.0	4.9	4.2
	10:00 p.m.-11:00 p.m.	3.3	2.3	3.5	3.4	3.7	4.4	3.9
	11:00 p.m.-12:00 a.m.	3.3	2.5	3.7	4.7	3.5	4.1	2.7
	12:00 a.m.-01:00 a.m.	3.3	2.6	3.4	3.7	3.3	3.8	3.6
	01:00 a.m.-02:00 a.m.	3.2	2.5	3.3	3.5	3.5	3.6	3.7
	02:00 a.m.-03:00 a.m.	3.3	2.6	3.2	3.1	3.4	3.5	3.6
	03:00 a.m.-04:00 a.m.	3.4	2.7	3.0	3.1	3.3	3.8	3.7
	04:00 a.m.-05:00 a.m.	3.0	2.6	3.1	3.2	3.3	4.3	3.8
	05:00 a.m.-06:00 a.m.	3.2	2.5	3.1	3.4	3.3	3.9	3.8
	06:00 a.m.-07:00 a.m.	3.1	2.7	3.1	3.3	3.4	3.8	4.0
	07:00 a.m.-08:00 a.m.	3.2	2.7	3.0	3.3	3.4	3.9	3.9
	08:00 a.m.-09:00 a.m.	3.1	3.2	3.1	3.7	3.5	4.4	4.2
	09:00 a.m.-10:00 a.m.	3.1	3.2	3.7	3.8	4.2	4.5	4.2
	10:00 a.m.-11:00 a.m.	3.2	3.3	4.2	3.9	3.9	4.4	4.2
	11:00 a.m.-12:00 p.m.	3.2	3.4	3.2	4.5	3.8	4.4	4.5
Average 1 hour max		3.4	3.4	6.9	4.7	5.6	4.9	4.5
Average 1 hour Minimum		3.0	1.8	3.0	3.1	3.3	3.5	2.7
Average 24 hour		3.2	2.6	3.6	3.6	3.7	4.1	4.0
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board No 24 B.E.2547

- = No standard.



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Analysis results refer to submitted sample(s) only

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032128/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	16-23/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	28/11-07/12/2023	Analyst By	:	-

## Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

## Wind Speed (m/s), Wind Direction (0-360°)

Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)

Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
10:00 a.m.-11:00 a.m.	0.4	NNE	0.4	N	0.4	N	0.4	NNE	0.4	ENE	0.4	N	0.4	NE
11:00 a.m.-12:00 p.m.	0.4	NNE	0.4	N	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ENE
12:00 p.m.-01:00 p.m.	0.4	SSE	0.4	NNE	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	N
01:00 p.m.-02:00 p.m.	0.4	NE	0.4	NNE	0.4	ENE	0.4	N	0.4	N	0.4	WNW	0.4	N
02:00 p.m.-03:00 p.m.	0.4	NE	0.4	NNE	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	NE
03:00 p.m.-04:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE
04:00 p.m.-05:00 p.m.	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ENE	0.4	N	0.4	NE
05:00 p.m.-06:00 p.m.	0.4	NE	0.4	ENE	0.4	ENE	0.4	NNE	0.4	ENE	0.4	NE	0.4	E
06:00 p.m.-07:00 p.m.	0.4	ENE	0.4	NE	0.4	ENE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N
07:00 p.m.-08:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	N	0.4	NE	0.4	N
08:00 p.m.-09:00 p.m.	0.4	ENE	0.4	NE	0.4	ENE	0.4	NE	0.4	NNE	0.4	NE	0.4	NNE
09:00 p.m.-10:00 p.m.	0.4	ENE	0.4	N	0.4	ENE	0.4	NNE	0.4	N	0.4	N	0.4	NNW
10:00 p.m.-11:00 p.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	E
11:00 p.m.-12:00 a.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NE	0.4	NE
12:00 a.m.-01:00 a.m.	0.4	ENE	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NNE
01:00 a.m.-02:00 a.m.	0.4	N	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N
02:00 a.m.-03:00 a.m.	0.4	N	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	N
03:00 a.m.-04:00 a.m.	0.4	N	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NE	0.4	N
04:00 a.m.-05:00 a.m.	0.4	NE	0.4	N	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NNE
05:00 a.m.-06:00 a.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE	0.4	NE
06:00 a.m.-07:00 a.m.	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	NNE	0.4	N	0.4	NE
07:00 a.m.-08:00 a.m.	0.4	E	0.4	NE	0.4	NNE	0.4	NNE	0.4	NNW	0.4	ENE	0.4	ENE
08:00 a.m.-09:00 a.m.	0.4	NE	0.4	N	0.4	NNE	0.4	NNE	0.4	NE	0.4	N	0.4	NNE
09:00 a.m.-10:00 a.m.	0.4	NNE	0.4	N	0.4	NNE	0.4	NNE	0.4	NE	0.4	ESE	0.4	NNE

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

12/12/2023

Analysis results refer to submitted sample(s) only

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032129/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED													
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190													
COORDINATOR	:	ENVIRONMENT DEPARTMENT													
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733													
Sampling Date	:	16-23/11/2023				Report Date	:	12/12/2023							
Received Date	:	24/11/2023				Sampling By	:								
Analytical Date	:	28/11-07/12/2023				Analyst By	:	-							
Sampling Condition															
Atmospheric Pressure (mmHg)		:	756		Ambient Temperature (oC)		:	33							
Wind Speed (m/s), Wind Direction (0-360°)															
Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)															
Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023		
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	
01:00 p.m.-02:00 p.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.9	WNW	0.4	NNE	0.4	N	
02:00 p.m.-03:00 p.m.	0.4	NE	0.4	NNE	0.4	NNE	0.4	N	0.4	WNW	0.4	NNE	0.4	N	
03:00 p.m.-04:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	0.4	NNE	0.4	WNW	0.4	NNE	0.4	N	
04:00 p.m.-05:00 p.m.	0.4	NNE	0.4	NNE	0.4	NNE	0.4	ENE	0.4	WNW	0.4	NNE	0.4	N	
05:00 p.m.-06:00 p.m.	0.4	NNE	0.9	NNE	0.4	NNE	0.4	ENE	0.4	WNW	0.9	NE	0.4	N	
06:00 p.m.-07:00 p.m.	0.9	NE	0.4	NNE	0.9	NNE	0.4	NE	0.9	WNW	0.9	NE	0.4	N	
07:00 p.m.-08:00 p.m.	0.9	N	0.4	NNE	0.4	NNE	0.9	N	0.9	NE	0.9	NE	0.4	NE	
08:00 p.m.-09:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	1.3	NNE	0.4	NE	1.3	N	0.4	N	
09:00 p.m.-10:00 p.m.	0.4	N	0.4	NNE	0.4	NNE	1.3	N	0.4	N	0.9	ENE	0.4	N	
10:00 p.m.-11:00 p.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.9	N	0.4	NNE	0.4	N	0.4	N	
11:00 p.m.-12:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.9	NE	0.4	NNE	0.9	N	0.4	N	
12:00 a.m.-01:00 a.m.	0.4	ENE	0.9	N	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
01:00 a.m.-02:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
02:00 a.m.-03:00 a.m.	0.9	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
03:00 a.m.-04:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
04:00 a.m.-05:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
05:00 a.m.-06:00 a.m.	0.4	ENE	0.4	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.9	N	
06:00 a.m.-07:00 a.m.	0.4	ENE	0.4	NNE	0.9	NNE	0.4	NE	1.3	NNE	0.4	N	0.4	N	
07:00 a.m.-08:00 a.m.	0.4	ENE	0.4	NNE	1.3	NNE	0.4	NE	1.3	NNE	1.3	N	0.4	N	
08:00 a.m.-09:00 a.m.	0.9	ENE	0.4	NNE	0.9	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	N	
09:00 a.m.-10:00 a.m.	0.9	NNE	0.9	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	NE	
10:00 a.m.-11:00 a.m.	0.4	NNE	0.4	NNE	0.4	ENE	0.4	N	0.4	NNE	0.4	N	0.4	NE	
11:00 a.m.-12:00 p.m.	0.4	NNE	0.4	NNE	0.4	ENE	0.4	NE	0.4	NNE	0.4	N	0.4	NNE	
12:00 p.m.-01:00 p.m.	0.4	NNE	0.4	NNE	0.4	N	0.4	N	0.4	NNE	0.4	N	0.4	NNE	

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.



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Analysis results refer to submitted sample(s) only

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ORIGINAL

REF .NO. : PM 66/1453

REPORT NO. : 032130/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED													
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190													
COORDINATOR	:	ENVIRONMENT DEPARTMENT													
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733													
Sampling Date	:	16-23/11/2023				Report Date	:	12/12/2023							
Received Date	:	24/11/2023				Sampling By	:	Mr. Jiravut Seehabut							
Analytical Date	:	28/11-07/12/2023				Analyst By	:								
Sampling Condition															
Atmospheric Pressure (mmHg)		:	756				Ambient Temperature (oC)		:	33					
Wind Speed (m/s), Wind Direction (0-360°)															
Project area (UTM : 47P 0756498 E, 1453688 N)															
Time	16-17/11/2023		17-18/11/2023		18-19/11/2023		19-20/11/2023		20-21/11/2023		21-22/11/2023		22-23/11/2023		
	WS	WD	WS	WD	W S	WD	WS	WD	WS	WD	WS	WD	WS	WD	
12:00 p.m.-01:00 p.m.	1.3	NNE	0.4	NE	0.4	NNE	0.4	N	0.4	ENE	0.4	NNE	0.4	NE	
01:00 p.m.-02:00 p.m.	3.1	NNE	0.4	NE	0.4	NE	0.4	N	0.4	NE	0.4	N	0.4	NNE	
02:00 p.m.-03:00 p.m.	4.9	NNE	0.4	NNE	0.4	N	0.4	NNE	0.4	NNE	0.4	N	0.4	N	
03:00 p.m.-04:00 p.m.	4.9	NNE	0.4	NW	0.4	N	0.4	N	0.4	NNE	0.4	ENE	0.4	ENE	
04:00 p.m.-05:00 p.m.	4.9	NNE	0.4	N	0.4	NNE	0.4	N	0.4	E	0.4	N	0.4	NE	
05:00 p.m.-06:00 p.m.	5.4	NNE	0.4	NNE	0.4	ENE	0.4	NE	0.4	ESE	0.4	N	0.4	NE	
06:00 p.m.-07:00 p.m.	3.6	NE	0.4	NNE	0.4	NE	0.4	N	0.4	NNE	0.4	N	0.4	N	
07:00 p.m.-08:00 p.m.	2.7	NE	0.4	NNE	0.4	N	0.4	N	0.4	N	0.4	N	0.4	NNE	
08:00 p.m.-09:00 p.m.	1.8	NE	0.4	NNE	0.4	ENE	0.4	NE	0.4	NNE	0.4	N	0.4	NNE	
09:00 p.m.-10:00 p.m.	1.3	NE	0.4	NNE	0.4	NE	0.4	NE	0.4	N	0.4	N	0.4	NNE	
10:00 p.m.-11:00 p.m.	1.3	NE	0.4	NNE	0.4	NE	0.4	NE	0.9	NNE	0.4	N	0.4	NNE	
11:00 p.m.-12:00 a.m.	1.8	NE	0.4	NNE	0.4	NE	0.4	NE	0.4	N	0.4	N	0.9	NNE	
12:00 a.m.-01:00 a.m.	0.4	NE	0.4	NNE	0.4	NE	0.4	N	0.4	NE	0.4	N	0.9	N	
01:00 a.m.-02:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.9	NNE	0.4	ENE	0.4	N	0.9	NE	
02:00 a.m.-03:00 a.m.	0.4	ENE	0.4	NNE	0.4	NE	0.4	N	0.9	NNW	0.4	N	0.4	NE	
03:00 a.m.-04:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.4	N	0.9	NNW	0.4	N	0.4	NE	
04:00 a.m.-05:00 a.m.	0.4	ENE	0.4	NE	0.4	NE	0.4	NE	0.9	NNW	0.4	N	0.4	N	
05:00 a.m.-06:00 a.m.	0.4	S	0.4	NE	0.4	NE	0.4	NE	0.9	NNW	0.4	NNW	0.9	W	
06:00 a.m.-07:00 a.m.	0.4	S	0.4	NE	0.4	N	0.4	ENE	0.9	NNW	0.4	NE	0.4	NE	
07:00 a.m.-08:00 a.m.	0.4	S	0.4	NE	0.4	N	0.4	NE	0.9	NNW	0.4	E	0.4	WSW	
08:00 a.m.-09:00 a.m.	0.4	S	0.4	NE	0.4	NE	0.4	NNW	0.4	N	0.4	NNE	0.4	NNW	
09:00 a.m.-10:00 a.m.	0.4	S	0.4	NNW	0.4	N	0.4	N	0.4	ENE	0.4	NE	0.4	N	
10:00 a.m.-11:00 a.m.	0.4	S	0.4	NNW	0.4	NNW	0.4	NNE	0.4	N	0.4	NE	0.4	N	
11:00 a.m.-12:00 p.m.	0.4	N	0.4	N	0.4	NNW	0.4	N	0.4	N	0.4	N	0.4	N	

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Approved Signature

12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 023101/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				

Sampling Date	:	20/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	25/11-07/12/2023	Analyst By	:	

Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Cassava grinding/milling area	1. Total Dust	Gravimetric Method (NIOSH 0500)	02:43 p.m.-04:15 p.m.	0.500	15 <sup>[1]</sup>	mg/m <sup>3</sup>
	2. Respirable Dust	Gravimetric Method (NIOSH 0600)	02:43 p.m.-04:15 p.m.	0.294	5 <sup>[1]</sup>	mg/m <sup>3</sup>
	3. Ethyl Alcohol	GC Method (NIOSH 1400)	02:43 p.m.-04:15 p.m.	<0.04	1,000	ppm
	4. TVOCs	VOC Analyzer (PID) (US.EPA Method 21)	02:43 p.m.-04:15 p.m.	<1	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard<sup>[1]</sup> : Occupational Safety and Health Administration (OSHA).

12/12/2023

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 023102/2023

## ANALYSIS REPORT

CLIENT NAME

:

P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED

ADDRESS

:

999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190

COORDINATOR

:

ENVIRONMENT DEPARTMENT

CONTACT INFORMATION

:

TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date

:

20/11/2023

Report Date

:

12/12/2023

Received Date

:

24/11/2023

Sampling By

:

Analytical Date

:

25/11-07/12/2023

Analyst By

:

Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Fermentation building area	1. Total Dust	Gravimetric Method (NIOSH 0500)	02:17 p.m.-04:17 p.m.	1.00	15 <sup>[1]</sup>	mg/m <sup>3</sup>
	2. Respirable Dust	Gravimetric Method (NIOSH 0600)	02:17 p.m.-04:17 p.m.	0.294	5 <sup>[1]</sup>	mg/m <sup>3</sup>
	3. Ethyl Alcohol	GC Method (NIOSH 1400)	02:17 p.m.-04:17 p.m.	<0.04	1,000	ppm
	4. TVOCs	VOC Analyzer (PID) (US.EPA Method 21)	02:17 p.m.-04:17 p.m.	<1	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard<sup>(1)</sup> : Occupational Safety and Health Administration (OSHA).

Technical Manager

12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 023103/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				

Sampling Date	:	20/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	
Analytical Date	:	25/11-07/12/2023	Analyst By	:	

Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Product dispensing area (Loading Station)	1. Total Dust	Gravimetric Method (NIOSH 0500)	02:36 p.m.-04:40 p.m.	0.927	15 <sup>[1]</sup>	mg/m <sup>3</sup>
	2. Respirable Dust	Gravimetric Method (NIOSH 0600)	02:36 p.m.-04:40 p.m.	0.237	5 <sup>[1]</sup>	mg/m <sup>3</sup>
	3. Ethyl Alcohol	GC Method (NIOSH 1400)	02:36 p.m.-04:40 p.m.	<0.04	1,000	ppm
	4. TVOCs	VOC Analyzer (PID) (US.EPA Method 21)	02:36 p.m.-04:40 p.m.	<1	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard<sup>[1]</sup> : Occupational Safety and Health Administration (OSHA).

Technical Manager

12/12/2023



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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 023100/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	20/11/2023	Report Date	:	12/12/2023
Received Date	:	24/11/2023	Sampling By	:	Mr. Sattien Khosuek
Analytical Date	:	25/11-07/12/2023	Analyst By	:	

Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Product storage tank area (tank yard)	1. Ethyl Alcohol	GC Method (NIOSH 1400)	02:45 p.m.-04:45 p.m.	<0.04	1,000	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.



Technical Manager

12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 023104/2023

## ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				
Sampling Date	:	20/11/2023	Report Date	:	12/12/2023	
Received Date	:	24/11/2023	Sampling By	:		
Analytical Date	:	25/11-07/12/2023	Analyst By	:		
Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Ethanol refinery area	1. Ethyl Alcohol	GC Method (NIOSH 1400)	02:38 p.m.-04:38p.m.	<0.04	1,000	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

(Ms.Sasithorn Suwanwiko)

Technical Manager

12/12/2023



\*\*\*\*\*

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 044413/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 20/11/2023	Report Date	: 12/12/2023
Received Date	: 24/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Time	Location	
	Cassava Grinding and Milling Area	
	Leq 1 hr	L <sub>max</sub>
09:30 a.m.-10:30 a.m.	83.2	96.7
10:30 a.m.-11:30 a.m.	85.3	95.8
11:30 a.m.-12:30 p.m.	86.1	106.9
12:30 p.m.-01:30 p.m.	84.7	94.6
01:30 p.m.-02:30 p.m.	83.5	93.6
02:30 p.m.-03:30 p.m.	84.3	95.1
03:30 p.m.-04:30 p.m.	86.0	96.1
04:30 p.m.-05:30 p.m.	86.1	96.1
TWA 8 hr	85	-
TWA 8 hr (L <sub>max</sub> )	-	106.9
Standard	85	115 <sup>[1]</sup>
Unit	dB(A)	

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Announces of the Department of Labor Protection and Welfare. The standard of Time Weighted Average (TWA), B.E. 2561 (2018).

Standard<sup>[1]</sup> : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

: Notification Of Ministry Of Industry: The Safety Protection Measures For Business Operation Regarding To Working Environment, B.E.2546 (2003).



Measurement Staff and Analyst

12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 044414/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED		
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190		
COORDINATOR	: ENVIRONMENT DEPARTMENT		
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733		

Sampling Date	: 20/11/2023	Report Date	: 12/12/2023
Received Date	: 24/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Time	Location	
	Boiler area	
	Leq 1 hr	L <sub>max</sub>
09:30 a.m.-10:30 a.m.	85.3	89.5
10:30 a.m.-11:30 a.m.	85.6	100.7
11:30 a.m.-12:30 p.m.	85.4	100.9
12:30 p.m.-01:30 p.m.	85.3	91.4
01:30 p.m.-02:30 p.m.	85.2	89.6
02:30 p.m.-03:30 p.m.	84.9	90.9
03:30 p.m.-04:30 p.m.	84.9	90.1
04:30 p.m.-05:30 p.m.	82.5	88.9
TWA 8 hr	85	-
TWA 8 hr (L <sub>max</sub> )	-	100.9
Standard	85	115 <sup>[1]</sup>
Unit	dB(A)	

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Announces of the Department of Labor Protection and Welfare. The standard of Time Weighted Average (TWA), B.E. 2561 (2018).

Standard<sup>[1]</sup> : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

: Notification Of Ministry Of Industry: The Safety Protection Measures For Business Operation Regarding To Working Environment, B.E.2546 (2003).

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032011/2023

## ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED  
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190  
COORDINATOR : ENVIRONMENT DEPARTMENT  
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date : 20-21/11/2023 Report Date : 12/12/2023  
Received Date : 24/11/2023 Sampling By :   
Analytical Date : 28/11-07/12/2023 Analyst By : -

Time	Result		
	Cassava Grinding and Milling Area		
	20-21/11/2023		
	Leq	Lmax	L <sub>90</sub>
02:00 p.m.-03:00 p.m.	67.8	89.5	64.8
03:00 p.m.-04:00 p.m.	70.5	100.7	64.9
04:00 p.m.-05:00 p.m.	72.6	100.9	64.8
05:00 p.m.-06:00 p.m.	74.6	91.4	64.8
06:00 p.m.-07:00 p.m.	70.4	89.6	68.4
07:00 p.m.-08:00 p.m.	70.9	90.9	66.7
08:00 p.m.-09:00 p.m.	71.4	90.1	67.2
09:00 p.m.-10:00 p.m.	70.6	88.9	68.4
10:00 p.m.-11:00 p.m.	71.4	91.2	68.4
11:00 p.m.-12:00 a.m.	69.6	79.6	66.4
12:00 a.m.-01:00 a.m.	70.4	73.9	66.7
01:00 a.m.-02:00 a.m.	69.0	70.7	57.7
02:00 a.m.-03:00 a.m.	59.2	67.4	56.6
03:00 a.m.-04:00 a.m.	58.1	65.7	56.6
04:00 a.m.-05:00 a.m.	58.4	66.7	56.4
05:00 a.m.-06:00 a.m.	59.0	70.0	56.3
06:00 a.m.-07:00 a.m.	61.3	74.3	58.3
07:00 a.m.-08:00 a.m.	66.2	88.7	57.2
08:00 a.m.-09:00 a.m.	69.0	88.5	57.5
09:00 a.m.-10:00 a.m.	65.6	83.6	57.6
10:00 a.m.-11:00 a.m.	73.6	90.3	59.3
11:00 a.m.-12:00 p.m.	64.9	83.3	56.5
12:00 p.m.-01:00 p.m.	60.2	74.9	56.1
01:00 p.m.-02:00 p.m.	73.6	102.9	61.9
Leq 24 hr	69.7		
Ldn	74.3		
Lmax	102.9		
Standard 24 hour	70		
Standard max	115		
Unit	dB(A)		

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Standard Notification of the Ministry of industry on configure volume disturbances and noise generated by the factory  
B.E. 2548 (2005)



12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 032012/2023

## ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED  
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190  
COORDINATOR : ENVIRONMENT DEPARTMENT  
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date : 20-21/11/2023 Report Date : 12/12/2023  
Received Date : 24/11/2023 Sampling By :   
Analytical Date : 28/11-07/12/2023 Analyst By : -

Time	Result		
	Boiler area		
	20-21/11/2023		
	Leq	Lmax	L <sub>90</sub>
03:00 p.m.-04:00 p.m.	68.3	96.7	51.2
04:00 p.m.-05:00 p.m.	70.4	95.8	53.6
05:00 p.m.-06:00 p.m.	70.3	106.9	54.1
06:00 p.m.-07:00 p.m.	69.8	94.6	53.3
07:00 p.m.-08:00 p.m.	68.6	93.6	51.8
08:00 p.m.-09:00 p.m.	69.4	95.1	52.9
09:00 p.m.-10:00 p.m.	71.1	96.1	54.4
10:00 p.m.-11:00 p.m.	71.2	96.1	54.8
11:00 p.m.-12:00 a.m.	69.8	95.8	48.4
12:00 a.m.-01:00 a.m.	66.9	93.1	47.9
01:00 a.m.-02:00 a.m.	69.3	94.7	51.4
02:00 a.m.-03:00 a.m.	70.3	99.9	54.2
03:00 a.m.-04:00 a.m.	70.5	94.9	54.6
04:00 a.m.-05:00 a.m.	70.5	95.2	54.3
05:00 a.m.-06:00 a.m.	70.2	95.1	53.8
06:00 a.m.-07:00 a.m.	69.8	94.4	53.6
07:00 a.m.-08:00 a.m.	71.0	104.3	54.2
08:00 a.m.-09:00 a.m.	70.5	96.7	53.7
09:00 a.m.-10:00 a.m.	70.4	95.0	54.1
10:00 a.m.-11:00 a.m.	69.9	95.3	53.5
11:00 a.m.-12:00 p.m.	70.3	95.1	54.1
12:00 p.m.-01:00 p.m.	69.4	94.4	53.1
01:00 p.m.-02:00 p.m.	70.3	95.8	53.2
02:00 p.m.-03:00 p.m.	70.7	95.6	54.3
Leq 24 hr	70.0		
Ldn	76.4		
Lmax	106.9		
Standard 24 hour	70		
Standard max	115		
Unit	dB(A)		

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Standard Notification of the Ministry of industry on configure volume disturbances and noise generated by the factory  
B.E. 2548 (2005)

Measurement Staff and Analyst

12/12/2023

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ระดับความร้อน





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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 044408/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 20/11/2023	Report Date	: 12/12/2023
Received Date	: 24/11/2023	Sampling By	: Ms. Prapaporn Ngopol
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Location						
Grinding and Milling area						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT <sub>(Average)</sub>
09:32 a.m.-11:32 p.m.	Control the operation of machines	27.4	33.2	34.6	29.6	29.6
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

(Ms. Prapaporn Ngopol)

Measurement Staff and Analyst

12/12/2023



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Analysis results refer to submitted sample(s) only

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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF.NO. : PM 66/1453

REPORT NO : 044409/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 17/11/2023	Report Date	: 12/12/2023
Received Date	: 20/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Location						
Boiler						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT <sub>(Average)</sub>
09:58 a.m.-11:58 a.m.	Controlling the loading of substances from trucks	27.5	33.5	33.3	29.7	29.7
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

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GT = Globe Temperature

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Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)



Measurement Staff and Analyst

12/12/2023

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met\_jj@yahoo.com

ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 044410/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					

Sampling Date	: 17/11/2023	Report Date	: 12/12/2023
Received Date	: 20/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Location						
Fermentation building						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT (Average)
01:45 p.m.-03:45 p.m.	Control the operation of machines	27.4	33.3	34.1	29.4	29.4
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

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GT = Globe Temperature

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Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

Measurement Staff and Analyst

12/12/2023

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ORIGINAL

REF.NO. : PM 66/1453

REPORT NO. : 044411/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 17/11/2023	Report Date	: 12/12/2023
Received Date	: 20/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Location						
Refinery and water separation plant						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT <sub>(Average)</sub>
09:39 a.m.-11:39 a.m.	Control the operation of the boiler	27.0	33.4	34.2	29.2	29.2
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

(Ms. Prapaporn Ngopol)

Measurement Staff and Analyst

12/12/2023



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ORIGINAL

REF.NO. : PM 66/1453  
REPORT NO. : 044412/2023

## ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 17/11/2023	Report Date	: 12/12/2023
Received Date	: 20/11/2023	Sampling By	: [REDACTED]
Analytical Date	: 28/11-07/12/2023	Analyst By	: -

Location						
Product dispensing building						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT <sub>(Average)</sub>
10:19 a.m.-12:19 p.m.	Check gauges/gauges/valves.	27.0	33.1	34.0	29.1	29.1
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

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Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

12/12/2023

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