

## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 16, 2023  
**SAMPLING TIME** : 13:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN ๖-145-๖-0032  
**ANALYZED BY** : MISS AMONRAT PUTTALEE ๖-145-๖-0009

**RECEIVED DATE** : JANUARY 16, 2023  
**ANALYTICAL DATE** : JANUARY 16-23, 2023  
**REPORT NO.** : 2023-U006000  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AA753-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ไม่กักเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AA753-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	7.2 (32°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	5.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	40.1	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	10.1	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	4,905	≤ 3,000	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

๖-145-๓-0004

JANUARY 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 16, 2023  
**SAMPLING TIME** : 13:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AMONRAT PUTTALEE จ-145-จ-0009

**RECEIVED DATE** : JANUARY 16, 2023  
**ANALYTICAL DATE** : JANUARY 16-23, 2023  
**REPORT NO.** : 2023-U006001  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AA753-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บน้ำหลัง โรงผลิตกรด ค่ามะกันค่า T23AA753-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	7.3 (31°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	2.8	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: 5220 D)	30.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	4,117	≤ 3,000	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR  
จ-145-ค-0004  
JANUARY 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 16, 2023  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AMONRAT PUTTALEE จ-145-จ-0009

**RECEIVED DATE** : JANUARY 16, 2023  
**ANALYTICAL DATE** : JANUARY 16-23, 2023  
**REPORT NO.** : 2023-U006002  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AA753-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บน้ำด้านหน้าท่าเทียบเรือ T23AA753-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	7.3 (30°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	48.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	8.8	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	7,755	≤ 3,000	25
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR  
จ-145-ด-0004  
JANUARY 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 17, 2023  
**SAMPLING TIME** : 09:00 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : FEBRUARY 17, 2023  
**ANALYTICAL DATE** : FEBRUARY 17-24, 2023  
**REPORT NO.** : 2023-U013816  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AC838-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AC838-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	3.8 (27°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	2.8	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	38.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	22.0	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	2,933	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

จ-145-ค-0004

MARCH 1, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 17, 2023  
**SAMPLING TIME** : 09:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : FEBRUARY 17, 2023  
**ANALYTICAL DATE** : FEBRUARY 17-24, 2023  
**REPORT NO.** : 2023-U013817  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AC838-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อเก็บน้ำหลัง โรงผลิตกรด กำมะถันเก่า T23AC838-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	6.4 (28°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	3.5	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	38.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	23.8	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	4,707	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR  
จ-145-ค-0004  
MARCH 1, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 17, 2023  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN ว-145-จ-0032  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : FEBRUARY 17, 2023  
**ANALYTICAL DATE** : FEBRUARY 17-24, 2023  
**REPORT NO.** : 2023-U013821  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AC838-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเกินมาตรฐาน หน้าท่าเทียบเรือ T23AC838-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: 4500-H <sup>+</sup> B)	6.9 (28°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: 5210 B AND 4500-O G)	4.2	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: 5220 C)	62.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: 2540 D)	11.4	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: 2540 C)	10,600	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

ว-145-ค-0004

MARCH 1, 2023



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: SIAM CHEMICALS PUBLIC COMPANY	<b>RECEIVED DATE</b>	: MARCH 14, 2023
<b>ADDRESS</b>	: 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290	<b>ANALYTICAL DATE</b>	: MARCH 14-23, 2023
<b>CONTACT INFORMATION</b>	: TEL : 0 2815 6980 e-mail : Chamaiporn_J@siamchemicals.co.th	<b>REPORT NO.</b>	: 2023-U021465
<b>SAMPLING SOURCE</b>	: SIAM CHEMICALS PUBLIC COMPANY	<b>WORK NO.</b>	: 2022-010427
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T23AE520-0001
<b>SAMPLING DATE</b>	: MARCH 14, 2023		
<b>SAMPLING TIME</b>	: 11:10 HOUR		
<b>SAMPLING METHOD</b>	: GRAB		
<b>SAMPLING BY</b>	: MR PEERAPAT BANYATSIN จ-145-จ-0032		
<b>ANALYZED BY</b>	: MISS AKSARIN BUNKONG จ-145-จ-0014		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AE520-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (29°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.6	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	59.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	11.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	11,235	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>METALS</b>					
ARSENIC <sup>c</sup>	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM: PART 3114 C)	0.0025	≤ 0.25	0.0003
HEXAVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
CADMIUM <sup>c</sup>	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.002
LEAD <sup>c</sup>	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE <sup>c</sup>	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.258	≤ 5.0	0.004
NICKEL <sup>c</sup>	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 1.0	0.005
ZINC <sup>c</sup>	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 5.0	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกรักเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AE520-0001		
MERCURY <sup>c</sup>	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM: PART 3112 B)	ND	≤ 0.005	0.0005
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Bhuchonk P.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR  
ว-145-ค-0020  
MARCH 27, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 14, 2023  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : MARCH 14, 2023  
**ANALYTICAL DATE** : MARCH 14-21, 2023  
**REPORT NO.** : 2023-U021466  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AE520-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อเก็บน้ำหลัง โรงผลิตกรด กำมะถันเก่า T23AE520-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (30°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	54.4	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	11.1	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	12,420	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR  
จ-145-ค-0020  
MARCH 27, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MARCH 14, 2023  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR PEERAPAT BANYATSIN จ-145-จ-0032  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : MARCH 14, 2023  
**ANALYTICAL DATE** : MARCH 14-21, 2023  
**REPORT NO.** : 2023-U021467  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AE520-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกรักเก็บน้ำด้านหน้าหาเทียมเรือ T23AE520-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.5 (30°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	44.8	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	8.4	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	11,238	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR  
จ-145-ค-0020  
MARCH 27, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Charnai\_porn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2023  
**SAMPLING TIME** : 10:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : APRIL 10, 2023  
**ANALYTICAL DATE** : APRIL 10-24, 2023  
**REPORT NO.** : 2023-U029956  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AG440-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเกินด้วยอย่าง ตามหน้าโครงการ (ผ่านการปาด) T23AG440-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.2 (34°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.4	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	53.9	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	9.5	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	8,242	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

ว-145-ค-0004

APRIL 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2023  
**SAMPLING TIME** : 10:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW จ-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : APRIL 10, 2023  
**ANALYTICAL DATE** : APRIL 10-24, 2023  
**REPORT NO.** : 2023-U029957  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AG440-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอ กกเก็บน้ำหลัง โรงผลิตกรด กำมะถันเก่า T23AG440-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (33°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	58.6	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>c</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	10,657	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR  
จ-145-ค-0004  
APRIL 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 10, 2023  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW จ-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG จ-145-จ-0014

**RECEIVED DATE** : APRIL 10, 2023  
**ANALYTICAL DATE** : APRIL 10-24, 2023  
**REPORT NO.** : 2023-U029958  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AG440-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกรักเก็บน้ำด้านหน้าท่าเทียบเรือ T23AG440-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (32°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.1	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	60.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	7.1	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	12,129	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

จ-145-ค-0004  
APRIL 26, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 15, 2023  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : MAY 15, 2023  
**ANALYTICAL DATE** : MAY 15-23, 2023  
**REPORT NO.** : 2023-U039766  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AI678-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AI678-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.5 (33°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	13	≤ 300	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	13	≤ 300	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.2	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	42.8	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	7.8	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	5,950	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

ว-145-ค-0004

MAY 25, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 15, 2023  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ๖-145-๓-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ๖-145-๓-0014

**RECEIVED DATE** : MAY 15, 2023  
**ANALYTICAL DATE** : MAY 15-23, 2023  
**REPORT NO.** : 2023-U039767  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AI678-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอ กักเก็บน้ำหลังโรง ผลิตกรดกำมะถันเก่า T23AI678-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.0 (32°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	11	≤ 300	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	11	≤ 300	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.3	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	46.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	18.0	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	7,383	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)

LABORATORY SUPERVISOR

๖-145-๓-0004

MAY 25, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 15, 2023  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : MAY 15, 2023  
**ANALYTICAL DATE** : MAY 15-23, 2023  
**REPORT NO.** : 2023-U039768  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AI678-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปกติเก็บน้ำด้านหน้า ท่าเทียบเรือ T23AI678-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.3 (32°C)	5.5-9.0	-
COLOUR (ORIGINAL pH) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	27	≤ 300	10
COLOUR (pH 7.0) <sup>b</sup>	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM: PART 2120 F)	27	≤ 300	10
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	10.6	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	50.7	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	9.3	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	5,760	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR  
ว-145-ค-0004  
MAY 25, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 14, 2023  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : JUNE 14, 2023  
**ANALYTICAL DATE** : JUNE 14-22, 2023  
**REPORT NO.** : 2023-U051441  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AL183-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปกติเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AL183-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (32°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	34.8	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	11.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	4,806	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>METALS</b>					
ARSENIC <sup>c</sup>	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM: PART 3114 C)	0.0027	≤ 0.25	0.0003
HEXAVALENT CHROMIUM <sup>c</sup>	mg/L Cr <sup>6+</sup>	FILTRATION, COLOURIMETRIC METHOD (SM: 3500-Cr B)	ND	≤ 0.25	0.006
CADMIUM <sup>c</sup>	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	≤ 0.03	0.002
LEAD <sup>c</sup>	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE <sup>c</sup>	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	0.254	≤ 5.0	0.004
NICKEL <sup>c</sup>	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	ND	≤ 1.0	0.005
ZINC <sup>c</sup>	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM: PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกรักเก็บตัวอย่าง ด้านหน้าโครงการ (ผ่านการบำบัด) T23AL183-0001		
MERCURY <sup>c</sup>	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM: PART 3112 B)	0.0006	≤ 0.005	0.0005
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (CADMIUM ≥ 0.002 AND < 0.020 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

*Bhuchonk P.*

(MR BHUCHONK PANICHLERTUMPI)

LABORATORY SUPERVISOR

ว-145-ค-0020

JUNE 27, 2023

## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Charnai\_porn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 14, 2023  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : JUNE 14, 2023  
**ANALYTICAL DATE** : JUNE 14-23, 2023  
**REPORT NO.** : 2023-U051442  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AL183-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอกกเก็บน้ำหลังโรง ผลิตกรดกำมะถันเก่า T23AL183-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	6.8 (31°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	33.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	25.3	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	5,143	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR  
ว-145-ค-0020  
JUNE 27, 2023



## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 0 2815 6980 e-mail : Chamaiporn\_J@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JUNE 14, 2023  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW ว-145-ค-0027  
**ANALYZED BY** : MISS AKSARIN BUNKONG ว-145-จ-0014

**RECEIVED DATE** : JUNE 14, 2023  
**ANALYTICAL DATE** : JUNE 14-22, 2023  
**REPORT NO.** : 2023-U051443  
**WORK NO.** : 2022-010427  
**ANALYSIS NO.** : T23AL183-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอกเก็บน้ำด้านหน้า ท่าเทียบเรือ T23AL183-0003		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.4 (31°C)	5.5-9.0	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	215	≤ 20	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	57.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	11.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	3,996	≤ 3,000	25
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID GREY		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,  
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)  
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ว-145-ค-0020  
JUNE 27, 2023

