

คุณภาพน้ำทิ้ง



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031



TESTING
No.0159

Test Report

Request No : W6507035

Report No : 6507-1534

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut , Rayong 21150**
Sampling Source : น้ำที่ที่ อ่างน้ำเสีย (เคมีคอล จ้ากัก)**
Sample Name : Waste Water Pit ; SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 04/07/2022 - 12/07/2022

Sample No : W 65070197
Sampling Date : 01/07/2022**
Sampling Time : 9:10 AM**
Received Date : 02/07/2022
Reported Date : 21/07/2022

Parameter	Unit	Method	Result	Standard/l
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	< 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.2	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	36	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	2,420	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	29	≤100

Physical Appearance : 1. Sample : yellow, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

- @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
- Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
- * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (๖-๐๐3-๖-8334)*
- ** = These data are non laboratory data.

Examined

(Miss Apiradee Chuen-arom)
(๖-๐๐3-๖-4377)
21/07/2022
บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved

(Mr. Kawee Suthasub)
(๖-๐๐3-๖-2205)
21/07/2022

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TESTING 0031



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No.0159

Test Report

Request No : W6507035

Report No : 6507-1534

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut , Rayong 21150**
Sampling Source : น้ำที่ที่ อ่างน้ำเสีย (เคมีคอล จ้ากัก)**
Sample Name : Waste Water Pit ; SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 04/07/2022 - 12/07/2022

Sample No : W 65070197
Sampling Date : 01/07/2022**
Sampling Time : 9:10 AM**
Received Date : 02/07/2022
Reported Date : 21/07/2022

Parameter	Unit	Method	Result	Standard/l
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	7	≤200

Physical Appearance : 1. Sample : yellow, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /I Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakomsongkrohrad-Rd., T. Maptaphut, Rayong 21150**
Sampling Source : น้ำที่ที่ อ่างเก็บน้ำเขื่อนลำนกั้ง**
Sample Name : SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 08/08/2022 - 19/08/2022
Request No : W6508166
Report No : 6508-1692
Sample No : W 65080712
Sampling Date : 05/08/2022**
Sampling Time : 9:40 AM**
Received Date : 06/08/2022
Reported Date : 24/08/2022

Parameter	Unit	Method	Result	Standard ^{1/}
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	< 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.4	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	35	≤45
Total Dissolved Solids #	mg/l	Dried at 180 °C (SM:2540C)	2,020	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	28	≤100

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [4 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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3. Miss Nunnaphat Bakhuntod is Section Head / Mr. Kawee Suthasub is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (7-003-ท-7279)*
5. ** = These data are non laboratory data.

Examined
(Miss Nunnaphat Bakhuntod)
(7-003-ท-4367)
24/08/2022



Approved
(Mr. Kawee Suthasub)
(7-003-ท-2205)
24/08/2022

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakomsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : น้ำที่ที่ อ่างเก็บน้ำเขื่อนลำนกั้ง**
Sample Name : SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 08/08/2022 - 19/08/2022
Request No : W6508166
Report No : 6508-1692
Sample No : W 65080712
Sampling Date : 05/08/2022**
Sampling Time : 9:40 AM**
Received Date : 06/08/2022
Reported Date : 24/08/2022

Parameter	Unit	Method	Result	Standard ^{1/}
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540D)	5	≤200

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [4 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut), Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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Examined
(Miss Nunnaphat Bakhuntod)
(7-003-ท-4367)
24/08/2022



Approved
(Mr. Kawee Suthasub)
(7-003-ท-2205)
24/08/2022

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NSC-TISI-TIS 17025
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TESTING
No.0159

Test Report

Request No : W6509065

Report No : 6509-0941

Customer : NPC Safety and Environmental Service Co.,Ltd.**

Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**

Sampling Source : ที่ที่ที่อาพาธิเคมีคอลจำกัด**

Sample No : W 65090336

Sample Name : SD-920 (Effluent)**

Sampling Date : 02/09/2022**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 03/09/2022

Tested Date : 05/09/2022 - 10/09/2022

Reported Date : 13/09/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.5	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	< 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.2	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	34	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	2,104	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	10	≤100

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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- * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthance Saiphan (จ-003-ก-7281)*
- ** = These data are non laboratory data.

Examined

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
13/09/2022



Approved By

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
13/09/2022

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TESTING
No.0159

Test Report

Request No : W6509065

Report No : 6509-0941

Customer : NPC Safety and Environmental Service Co.,Ltd.**

Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**

Sampling Source : ที่ที่ที่อาพาธิเคมีคอลจำกัด**

Sample No : W 65090336

Sample Name : SD-920 (Effluent)**

Sampling Date : 02/09/2022**

Sampling By : ETC**

Sampling Time : 9:30 AM**

Sampling Method : Grab**

Received Date : 03/09/2022

Tested Date : 05/09/2022 - 10/09/2022

Reported Date : 13/09/2022

Parameter	Unit	Method	Result	Standard ¹
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

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Examined By

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
13/09/2022



Approved By

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
13/09/2022

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : บริษัท พีทีที อาซาฮี เคมิคอล จำกัด**
Sample Name : SD-920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 10/10/2022 - 26/10/2022

Request No : W6510212
Report No : 6510-1795
Sample No : W 65100940
Sampling Date : 07/10/2022**
Sampling Time : 9:20 AM**
Received Date : 08/10/2022
Reported Date : 27/10/2022

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.5	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	< 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.4	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	34	≤45
Total Dissolved Solids #	mg/l	Dried at 180 °C (SM:2540C)	1,940	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	8	≤100

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [6 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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5. ** = These data are non laboratory data.

Examined

(Miss Apiradee Chuen-arom)
(3-003-ก-4377)
27/10/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)
(3-003-ก-2205)
27/10/2022

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : บริษัท พีทีที อาซาฮี เคมิคอล จำกัด**
Sample Name : SD-920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 10/10/2022 - 26/10/2022

Request No : W6510212
Report No : 6510-1795
Sample No : W 65100940
Sampling Date : 07/10/2022**
Sampling Time : 9:20 AM**
Received Date : 08/10/2022
Reported Date : 27/10/2022

Parameter	Unit	Method	Result	Standard ¹
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [6 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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(Miss Apiradee Chuen-arom)
(3-003-ก-4377)
27/10/2022



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(3-003-ก-2205)
27/10/2022

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : บริษัท ฟิฟตี อาซาฮี เคมิคอล จำกัด**
Sample Name : Waste Water Pit ; SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/11/2022 - 15/11/2022

Request No : W6511157
Report No : 6511-1229

Parameter	Unit	Method	Result	Standard/l
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	≤ 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.0	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	33	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	2,080	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	9	≤100

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (๓-003-๖-5637)*
5. ** = These data are non laboratory data.

Exam

(Miss Apiradee Chuen-arom)
(๓-003-๖-4377)
16/11/2022



Approved By

(Mr. Kawee Suthasub)
(๓-003-๖-2205)
16/11/2022

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Test Report

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : บริษัท ฟิฟตี อาซาฮี เคมิคอล จำกัด**
Sample Name : Waste Water Pit ; SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/11/2022 - 15/11/2022

Request No : W6511157
Report No : 6511-1229

Parameter	Unit	Method	Result	Standard/l
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS, nonsmelling
2. Container : Normal [PE 0.5 L [3 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (๓-003-๖-5637)*
5. ** = These data are non laboratory data.

Exam

(Miss Apiradee Chuen-arom)
(๓-003-๖-4377)
16/11/2022



Approved

(Mr. Kawee Suthasub)
(๓-003-๖-2205)
16/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY



EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax: 0-3848-2095 E-mail: marketing@etc1992.com



NSC-TISI-TIS 17025
TESTING 0031



TESTING
No.0159

Test Report

Request No : W6512071

Report No : 6512-0966

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : ที่ที่ที่ อาพาธิ์ เหมคอก จ้ากค**
Sample Name : SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 03/12/2022 - 12/12/2022

Sample No : W 65120374
Sampling Date : 02/12/2022**
Sampling Time : 9:10 AM**
Received Date : 03/12/2022
Reported Date : 15/12/2022

Parameter	Unit	Method	Result	Standard/1
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Cyanide *	mg/l as HCN	Distillation, Colorimetric Method (SM:4500 CN- C, E)	< 0.020	≤0.2
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	6.6	5.5 - 9
Sulfide *	mg/l as H ₂ S	ZnS Precipitation, Iodometric Method (SM:4500 -S2- F)	< 0.50	≤1
Temperature *	°C	Laboratory and Field Method	35	≤45
Total Dissolved Solids #	mg/l	Dried at 180 C (SM:2540C)	1,864	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl Method (SM:4500 -Norg B)	7	≤100

Physical Appearance : 1. Sample : yellowish, lightly SS, non smelling
2. Container : Normal [PE 0.5 L (2 Bottle) , PE 1.0 L, PE 1.8 L , G 1.0 L]

- Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
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3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (1-003-ก-7279)*
5. ** = These data are non laboratory data.

Examined

(Miss Apiradee Chuen-arom)
(1-003-ก-4377)
15/12/2022



Approved By

(Mr. Kawee Suthasub)
(1-003-ก-2205)
15/12/2022

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NSC-TISI-TIS 17025
TESTING 0031



TESTING
No.0159

Test Report

Request No : W6512071

Report No : 6512-0966

Customer : NPC Safety and Environmental Service Co.,Ltd.**
Address : 20/9 Pakornsongkrohrad Rd., T. Maptaphut, Rayong 21150**
Sampling Source : ที่ที่ที่ อาพาธิ์ เหมคอก จ้ากค**
Sample Name : SD 920 (Effluent)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 03/12/2022 - 12/12/2022

Sample No : W 65120374
Sampling Date : 02/12/2022**
Sampling Time : 9:10 AM**
Received Date : 03/12/2022
Reported Date : 15/12/2022

Parameter	Unit	Method	Result	Standard/1
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS, non smelling
2. Container : Normal [PE 0.5 L (2 Bottle) , PE 1.0 L, PE 1.8 L , G 1.0 L]

- Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
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Examined

(Miss Apiradee Chuen-arom)
(1-003-ก-4377)
15/12/2022



Approved

(Mr. Kawee Suthasub)
(1-003-ก-2205)
15/12/2022

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