

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม





TEST REPORT

Analysis No. : R23-2316
Received Date: 24/07/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 04/08/23
Analysis Date : 25-26/07/23
Job No. : S660135/July
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result		
			TSP (mg/m ³)	PM-10 (mg/m ³)	SO ₂ (mg/m ³)
ม. 4 บ้านวังตาผิน ต. ปลวกแดง (47P 0736339 UTM 1436599)	2307-AA0819	20-21/07/23	0.027	0.013	< 0.001
	2307-AA0822	21-22/07/23	0.054	0.019	< 0.001
	2307-AA0825	22-23/07/23	0.027	0.017	< 0.001
ม. 1 บ้านคลองกร่ำ ต. ตาสีหรี (47P 0738837 UTM 1439710)	2307-AA0820	20-21/07/23	0.032	0.017	< 0.001
	2307-AA0823	21-22/07/23	0.048	0.022	< 0.001
	2307-AA0826	22-23/07/23	0.032	0.014	< 0.001
ชุมชนที่พักอาศัยในโครงการ (47P 0736678 UTM 1436867)	2307-AA0821	20-21/07/23	0.028	0.010	< 0.001
	2307-AA0824	21-22/07/23	0.032	0.010	< 0.001
	2307-AA0827	22-23/07/23	0.015	0.006	< 0.001
Standard			0.33	0.12	0.30

Remarks : Concentration of each gas in Ambient is based on 1 atm and 25 °C
Analysis Date : TSP, PM-10 (2307-AA0819, 2307-AA0820, 2307-AA0821, 2307-AA0822, 2307-AA0823, 2307-AA0824, 2307-AA0825, 2307-AA0826, 2307-AA0827)/24-26/07/23
SO₂ (2307-AA0819, 2307-AA0820, 2307-AA0821, 2307-AA0822, 2307-AA0823, 2307-AA0824, 2307-AA0825, 2307-AA0826, 2307-AA0827)/25/07/23
Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)
PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)
SO₂ = Pararosaniline Method (APHA 704)
Standard : Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hrs. average value

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04/08/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
04/08/23

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TEST REPORT

Customer Name : บริษัท จี. เค. แลนด์ จำกัด/
โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881
Job No. : S660135/July

Report No. : 2316/2023/1-6
Report Date : July 27, 2023
Sampling Date : July 20-23, 2023
Type of Sample : Ambient Air

Item	Time	Result		
		ม. 4 บ้านวังตาผิน ต. ปลวกแดง		
		NO ₂ (ppm)		
		20-21/07/23	21-22/07/23	22-23/07/23
1.	12:00-13:00	0.0048	0.0026	0.0046
2.	13:00-14:00	0.0032	0.0044	0.0030
3.	14:00-15:00	0.0037	0.0034	0.0038
4.	15:00-16:00	0.0039	0.0033	0.0030
5.	16:00-17:00	0.0028	0.0031	0.0028
6.	17:00-18:00	0.0029	0.0032	0.0032
7.	18:00-19:00	0.0020	0.0028	0.0031
8.	19:00-20:00	0.0017	0.0029	0.0032
9.	20:00-21:00	0.0030	0.0031	0.0013
10.	21:00-22:00	0.0023	0.0027	0.0019
11.	22:00-23:00	0.0026	0.0027	0.0013
12.	23:00-00:00	0.0024	0.0028	0.0018
13.	00:00-01:00	0.0026	0.0020	0.0031
14.	01:00-02:00	0.0031	0.0031	0.0029
15.	02:00-03:00	0.0030	0.0034	0.0032
16.	03:00-04:00	0.0030	0.0024	0.0024
17.	04:00-05:00	0.0030	0.0029	0.0027
18.	05:00-06:00	0.0035	0.0023	0.0023
19.	06:00-07:00	0.0024	0.0031	0.0033
20.	07:00-08:00	0.0023	0.0031	0.0036
21.	08:00-09:00	0.0018	0.0022	0.0031
22.	09:00-10:00	0.0020	0.0014	0.0032
23.	10:00-11:00	0.0027	0.0014	0.0031
* 24.	11:00-12:00	0.0031	0.0014	0.0032
Minimum		0.0017	0.0014	0.0013
Maximum		0.0048	0.0044	0.0046
Average		0.0028	0.0027	0.0029
Standard		0.17		

Standard: Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

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TEST REPORT

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โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผืน-สะพานสี่
ตำบลปลวกแดง อำเภอลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881
Job No. : S660135/July

Report No. : 2316/2023/2-6

Report Date : July 27, 2023

Sampling Date : July 20-23, 2023

Type of Sample : Ambient Air

Item	Time	Result		
		ม. 1 บ้านคลองกร้า ต. ตาสีหี		
		NO ₂ (ppm)		
		20-21/07/23	21-22/07/23	22-23/07/23
1.	13:00-14:00	0.0043	0.0026	0.0012
2.	14:00-15:00	0.0042	0.0029	0.0029
3.	15:00-16:00	0.0027	0.0033	0.0030
4.	16:00-17:00	0.0048	0.0025	0.0036
5.	17:00-18:00	0.0032	0.0024	0.0037
6.	18:00-19:00	0.0035	0.0029	0.0019
7.	19:00-20:00	0.0025	0.0031	0.0019
8.	20:00-21:00	0.0027	0.0021	0.0020
9.	21:00-22:00	0.0022	0.0025	0.0021
10.	22:00-23:00	0.0022	0.0028	0.0020
11.	23:00-00:00	0.0019	0.0019	0.0021
12.	00:00-01:00	0.0018	0.0019	0.0019
13.	01:00-02:00	0.0020	0.0020	0.0017
14.	02:00-03:00	0.0020	0.0021	0.0022
15.	03:00-04:00	0.0027	0.0020	0.0021
16.	04:00-05:00	0.0025	0.0021	0.0019
17.	05:00-06:00	0.0025	0.0028	0.0017
18.	06:00-07:00	0.0030	0.0041	0.0022
19.	07:00-08:00	0.0032	0.0033	0.0030
20.	08:00-09:00	0.0034	0.0018	0.0031
21.	09:00-10:00	0.0031	0.0017	0.0023
22.	10:00-11:00	0.0032	0.0020	0.0029
23.	11:00-12:00	0.0037	0.0016	0.0025
24.	12:00-13:00	0.0024	0.0019	0.0019
Minimum		0.0018	0.0016	0.0012
Maximum		0.0048	0.0041	0.0037
Average		0.0029	0.0024	0.0023
Standard		0.17		

Standard: Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai P.
Somchai Piyavorasakul
General Manager

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TEST REPORT

Customer Name : บริษัท จี. เค. แลนด์ จำกัด/
โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881
Job No. : S660135/July

Report No. : 2316/2023/3-6
Report Date : July 27, 2023
Sampling Date : July 20-23, 2023
Type of Sample : Ambient Air

Item	Time	Result		
		ชุมชนที่พักอาศัยในโครงการ		
		NO ₂ (ppm)		
		20-21/07/23	21-22/07/23	22-23/07/23
1.	11:00-12:00	0.0035	0.0043	0.0038
2.	12:00-13:00	0.0041	0.0046	0.0052
3.	13:00-14:00	0.0041	0.0052	0.0045
4.	14:00-15:00	0.0049	0.0048	0.0044
5.	15:00-16:00	0.0047	0.0047	0.0044
6.	16:00-17:00	0.0043	0.0042	0.0045
7.	17:00-18:00	0.0041	0.0040	0.0045
8.	18:00-19:00	0.0032	0.0043	0.0037
9.	19:00-20:00	0.0034	0.0035	0.0040
10.	20:00-21:00	0.0044	0.0038	0.0031
11.	21:00-22:00	0.0036	0.0034	0.0028
12.	22:00-23:00	0.0042	0.0039	0.0035
13.	23:00-00:00	0.0038	0.0038	0.0033
14.	00:00-01:00	0.0035	0.0033	0.0025
15.	01:00-02:00	0.0037	0.0033	0.0025
16.	02:00-03:00	0.0034	0.0030	0.0025
17.	03:00-04:00	0.0029	0.0029	0.0024
18.	04:00-05:00	0.0031	0.0031	0.0030
19.	05:00-06:00	0.0031	0.0031	0.0024
20.	06:00-07:00	0.0042	0.0038	0.0029
21.	07:00-08:00	0.0035	0.0042	0.0044
22.	08:00-09:00	0.0037	0.0049	0.0046
23.	09:00-10:00	0.0041	0.0045	0.0040
24.	10:00-11:00	0.0053	0.0050	0.0034
Minimum		0.0029	0.0029	0.0024
Maximum		0.0053	0.0052	0.0052
Average		0.0039	0.0040	0.0036
Standard		0.17		

Standard: Notification of the National Environment Board No. 33 (2009) (B.E. 2552)

Wannasiri S.
Wannasiri Suriyawong



Somchai F.
Somchai Piyavorasakul
General Manager

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TEST REPORT

Customer Name : บริษัท จี. เค. แลนด์ จำกัด/

Report No. : 2316/2023/4-6

โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์

Report Date : July 27, 2023

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่

Sampling Date : July 20-23, 2023

ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Type of Sample : WS & WD

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Job No. : S660135/July

Item	Time	ชุมชนที่พักอาศัยในโครงการ					
		20-21/07/23		21-22/07/23		22-23/07/23	
		WS	WD	WS	WD	WS	WD
1.	11:00-12:00	2.2	WNW	0.9	S	0.4	NNW
2.	12:00-13:00	0.9	WNW	0.9	SSE	0.0	ESE
3.	13:00-14:00	4.5	NW	0.4	SW	0.4	WNW
4.	14:00-15:00	4.9	NW	0.4	S	1.3	NNW
5.	15:00-16:00	3.1	NW	0.9	WNW	2.7	WNW
6.	16:00-17:00	3.1	WNW	1.3	WSW	0.9	WNW
7.	17:00-18:00	2.2	WNW	1.3	SSW	0.0	SE
8.	18:00-19:00	0.4	W	0.4	SSW	0.0	N
9.	19:00-20:00	0.4	WNW	0.0	SSW	0.4	ENE
10.	20:00-21:00	2.2	SSE	0.4	SE	0.9	SE
11.	21:00-22:00	2.7	WNW	0.9	SSE	0.4	SE
12.	22:00-23:00	0.9	NNW	1.3	SSE	1.3	E
13.	23:00-00:00	0.4	W	0.9	E	0.4	SSE
14.	00:00-01:00	1.3	ESE	0.4	SSE	0.0	E
15.	01:00-02:00	0.9	S	0.9	SE	0.4	ESE
16.	02:00-03:00	2.7	NW	1.8	SE	0.9	SSE
17.	03:00-04:00	0.9	WSW	0.9	SE	0.4	S
18.	04:00-05:00	1.8	WNW	0.0	E	1.3	SE
19.	05:00-06:00	0.4	SSW	0.4	SE	0.4	SSE
20.	06:00-07:00	0.4	SW	0.4	E	0.4	E
21.	07:00-08:00	0.4	WSW	0.4	E	0.4	ESE
22.	08:00-09:00	0.4	W	0.9	E	0.0	ENE
23.	09:00-10:00	0.4	SSW	0.4	WNW	0.9	E
24.	10:00-11:00	0.9	SSE	0.4	NW	1.8	SE
Average		1.6	-	0.7	-	0.7	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิสิ่งแวดล้อมไทย จำกัด



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ต้นฉบับ

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E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-2316
Received Date: 24/07/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 04/08/23
Analysis Date : 21-31/07/23
Job No. : S660135/July
Sampling Date * : 21/07/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2307-WW0562 = black turbid/high black sediment/smell, Flow Rate = - m³/hr.
2307-WW0563 = yellow turbid/slight black sediment, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result		Analysis Date
				2307-WW0562	2307-WW0563	
				บ่อน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3)	
1	pH *	-	Electrometric Method (SM 4500 B)	7.92	8.26	21/07/23
2	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	23.4	12.6	25/07/23
3	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	273	323	27/07/23
4	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.82	4.57	21/07/23
5	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	11	5	26-31/07/23
6	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	65	48	24/07/23
7	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	1.8	1.0	25/07/23
8	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	27/07/23
9	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	27/07/23
10	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	< 0.0005	25/07/23
11	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	27/07/23
12	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.06	0.04	27/07/23
13	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	27/07/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535
ผ่านการบำบัดก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04/08/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
04/08/23

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 3 of 7

TEST REPORT

Analysis No. : R23-2316

Received Date: 24/07/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Sample Conditions : 2307-WW0564 = green turbid/slight black sediment, Flow Rate = - m³/hr.

Report Date : 04/08/23

Analysis Date : 21-31/07/23

Job No. : S660135/July

Sampling Date * : 21/07/23

Sampling By * : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2307-WW0564		
				ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ)		
1	pH *	-	Electrometric Method (SM 4500 B)	8.86	5.5-9.0	21/07/23
2	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate	18	300	25/07/23
	Color (pH 7) *	ADMI		17	300	25/07/23
3	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	15.3	50	25/07/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	313	3,000	27/07/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.33	-	21/07/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	4	20	26-31/07/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	36	120	24/07/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	5	25/07/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	27/07/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	27/07/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	25/07/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	27/07/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	27/07/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	27/07/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

04/08/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

04/08/23

REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

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TEST REPORT

Analysis No. : R23-2532
Received Date: 15/08/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 29/08/23
Analysis Date : 11-23/08/23
Job No. : S660135/Aug
Sampling Date * : 11/08/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2308-WW0351 = yellow turbid/high black and white sediment/covered with oil slick/smell, Flow Rate = - m³/hr.
2308-WW0352 = green turbid/high white and green sediment, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result		Analysis Date
				2308-WW0351	2308-WW0352	
				บ่อน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3)	
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	32.1	33.3	11/08/23
2	pH *	-	Electrometric Method (SM 4500 B)	7.10	8.79	11/08/23
3	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	4.8	4.4	17/08/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	418	460	18/08/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	3.16	5.70	11/08/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	3	3	16-21/08/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	36	40	16/08/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	1.0	0.8	16/08/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	21/08/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	15/08/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0053	0.0054	23/08/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	21/08/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.02	0.04	21/08/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	21/08/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535
ผ่านการบำบัดก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
29/08/23



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
29/08/23

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TEST REPORT

Analysis No. : R23-2532

Received Date: 15/08/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังคานิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Report Date : 29/08/23

Analysis Date : 11-28/08/23

Job No. : S660135/Aug

Sampling Date * : 11/08/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2308-WW0353 = green turbid/slight black and green sediment, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2308-WW0353		
				ผ่านการบำบัดจากบ่อผึ่งแล้ว (บ่อกักเก็บน้ำ)		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	32.1	40	11/08/23
2	pH *	-	Electrometric Method (SM 4500 B)	8.85	5.5-9.0	11/08/23
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	50	300	16/08/23
	Color (pH 7) *	ADMI		42	300	16/08/23
4	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	8.4	50	17/08/23
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	468	3,000	18/08/23
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	5.45	-	11/08/23
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	20	16-21/08/23
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	34	120	16/08/23
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.6	5	16/08/23
10	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	24/08/23
11	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	15/08/23
12	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0019	0.005	23/08/23
13	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	24/08/23
14	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	24/08/23
15	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	28/08/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ผ่านการบำบัดจากบ่อผึ่งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
29/08/23

Approved by

Mrs. Pomtip Pethshee
Laboratory Manager
29/08/23

END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-2898
Received Date: 13/09/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แอนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881
Report Date : 22/09/23
Analysis Date : 12-18/09/23
Job No. : S660135/Sep
Sampling Date * : 12/09/23
Sampling By * : TET
Type of Sample : Wastewater
Sample Conditions : 2309-WW0380 = white turbid/high black and white sediment/covered with oil slick/smell, Flow Rate = - m³/hr.
2309-WW0381 = green turbid/slight black sediment/covered with oil slick, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result		Analysis Date
				2309-WW0380	2309-WW0381	
				บ่อน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3)	
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.8	31.8	12/09/23
2	pH *	-	Electrometric Method (SM 4500 B)	7.81	8.12	12/09/23
3	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	10.1	14.0	15/09/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	395	388	13/09/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	2.45	4.09	12/09/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	23	4	13-18/09/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	124	33	14/09/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	3.5	0.6	15/09/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	18/09/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	13/09/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	< 0.0005	14/09/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	18/09/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	18/09/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	18/09/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535

: ผ่านการบำบัดก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
22.09.23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
22.09.23

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TEST REPORT

Analysis No. : R23-2898
Received Date: 13/09/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 22/09/23
Analysis Date : 12-18/09/23
Job No. : S660135/Sep
Sampling Date * : 12/09/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2309-WW0382 = green turbid/slight black sediment/covered with oil slick, Flow Rate = 35.58 m³/hr.

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2309-WW0382		
				ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ)		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.4	40	12/09/23
2	pH *	-	Electrometric Method (SM 4500 B)	8.26	5.5-9.0	12/09/23
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	48	300	14/09/23
	Color (pH 7) *	ADMI		24	300	14/09/23
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	12.4	50	15/09/23
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	378	3,000	13/09/23
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.57	-	12/09/23
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	20	13-18/09/23
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	31	120	14/09/23
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.6	5	15/09/23
10	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	18/09/23
11	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	13/09/23
12	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	14/09/23
13	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	18/09/23
14	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.02	1.0	18/09/23
15	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	18/09/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
22, 09/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
22, 09/23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-3102
Received Date: 03/10/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังคานิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 12/10/23
Analysis Date : 02-09/10/23
Job No. : S660135/Oct
Sampling Date * : 02/10/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2310-WW0038 = black turbid/high white and black sediment/smell, Flow Rate = - m³/hr.
2310-WW0039 = green turbid/high white sediment, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result		Analysis Date
				2310-WW0038	2310-WW0039	
				บ่อน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3)	
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.4	30.7	02/10/23
2	pH *	-	Electrometric Method (SM 4500 B)	7.22	7.49	02/10/23
3	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	7.9 *	17.2	04/10/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	511	457	03/10/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	2.54	3.30	02/10/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	59	4	04-09/10/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	156	45	04/10/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	4.6	1.1	05/10/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	04/10/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	03/10/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	< 0.0005	05/10/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	04/10/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	0.04	04/10/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	04/10/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535
ผ่านการบำบัดก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12/10/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
12/10/23

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TEST REPORT

Analysis No. : R23-3102
Received Date: 03/10/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี.เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 12/10/23
Analysis Date : 02-09/10/23
Job No. : S660135/Oct
Sampling Date * : 02/10/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2310-WW0040 = green turbid/high white sediment, Flow Rate = 35.58 m³/hr.

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2310-WW0040		
				ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ)		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.4	40	02/10/23
2	pH *	-	Electrometric Method (SM 4500 B)	8.45	5.5-9.0	02/10/23
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F)	17	300	03/10/23
	Color (pH 7) *	ADMI		15	300	03/10/23
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	12.5	50	04/10/23
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	365	3,000	03/10/23
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	4.22	-	02/10/23
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	5	20	04-09/10/23
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	51	120	04/10/23
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.6	5	05/10/23
10	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	04/10/23
11	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	05/10/23
12	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	05/10/23
13	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	04/10/23
14	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.02	1.0	04/10/23
15	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	04/10/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

12/10/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

12/10/23

..... END OF REPORT

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TEST REPORT

Analysis No. : R23-3479
Received Date: 03/11/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 10/11/23
Analysis Date : 02-08/11/23
Job No. : S660135/Nov
Sampling Date * : 02/11/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2311-WW0028 = white turbid/high black sediment/covered with oil slick/smell, Flow Rate = - m³/hr.
2311-WW0029 = green turbid/slight white sediment/smell, Flow Rate = - m³/hr.

Item	Parameter	Unit	Method	Result		Analysis Date
				2311-WW0028	2311-WW0029	
				บ่อน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3)	
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.7	30.5	02/11/23
2	pH *	-	Electrometric Method (SM 4500 B)	7.56	8.44	02/11/23
3	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	7.5*	14.9	06/11/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	485	454	06-07/11/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	2.34	6.95	02/11/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	8	5	03-08/11/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	68	45	06/11/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	1.4	1.2	06/11/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	06/11/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	06/11/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0007	0.0008	07/11/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	06/11/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.12	0.05	06/11/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	06/11/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535
ผ่านการบำบัดก่อนเข้าบ่อฝัง (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
10/11/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
10/11/23

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL
ต้นฉบับ

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 2 of 2

TEST REPORT

Analysis No. : R23-3479
Received Date: 03/11/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอลำปลายมาศ จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 10/11/23
Analysis Date : 02-08/11/23
Job No. : S660135/Nov
Sampling Date * : 02/11/23
Sampling By * : TET
Type of Sample : Wastewater

Sample Conditions : 2311-WW0030 = green turbid/slight white sediment/smell, Flow Rate = 35.58 m³/hr.

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2311-WW0030		
				ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ)		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.2	40	02/11/23
2	pH *	-	Electrometric Method (SM 4500 B)	8.29	5.5-9.0	02/11/23
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate	19	300	03/11/23
	Color (pH 7) *	ADMI		14	300	03/11/23
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	14.3	50	06/11/23
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	404	3,000	06-07/11/23
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	9.02	-	02/11/23
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	4	20	03-08/11/23
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	39	120	06/11/23
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	5	06/11/23
10	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	06/11/23
11	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	06/11/23
12	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	07/11/23
13	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	06/11/23
14	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	06/11/23
15	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	06/11/23

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA-AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

10/11/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager

10/11/23

..... END OF REPORT

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TEST REPORT

Analysis No. : R23-3862

Received Date: 04/12/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แอนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Sample Conditions : 2312-WW0052 = black turbid/high white and black sediment/covered with oil slick/smell, Flow Rate = - m³/hr.

2312-WW0053 = light green/high white sediment, Flow Rate = - m³/hr.

Report Date : 14/12/23

Analysis Date : 01-12/12/23

Job No. : S660135/Dec

Sampling Date * : 01/12/23

Sampling By * : TET

Type of Sample : Wastewater

Item	Parameter	Unit	Method	Result		Analysis Date
				2312-WW0052	2312-WW0053	
				บ่อกักน้ำก่อนเข้าระบบ บำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย)	ผ่านการบำบัด ก่อนเข้าบ่อบำบัด (บ่อเติมอากาศ 3)	
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	30.4	28.7	01/12/23
2	pH *	-	Electrometric Method (SM 4500 B)	7.94	8.00	01/12/23
3	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	11.3	17.7	06/12/23
4	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	408	334	07/12/23
5	DO *	mg/L	Membrane Electrode (SM 4500 G)	1.00	5.74	01/12/23
6	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	14	2	06-11/12/23
7	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	101	21	06/12/23
8	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	3.2	0.6	06/12/23
9	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	< 0.02	12/12/23
10	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	< 0.02	06/12/23
11	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	< 0.0005	07/12/23
12	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	< 0.02	07/12/23
13	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.33	0.05	07/12/23
14	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	< 0.04	07/12/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: บ่อกักน้ำก่อนเข้าระบบบำบัดส่วนกลาง (บ่อปรับสภาพน้ำเสีย) = 47P 0736266 UTM 1437535

: ผ่านการบำบัดก่อนเข้าบ่อบำบัด (บ่อเติมอากาศ 3) = 47P 0736212 UTM 1437559

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

14/12/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

14/12/23



TEST REPORT

Analysis No. : R23-3862

Received Date: 04/12/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 14/12/23

Analysis Date : 01-12/12/23

Job No. : S660135/Dec

Sampling Date * : 01/12/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2312-WW0054 = light green/high white sediment, Flow Rate = 35.58 m³/hr.

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2312-WW0054		
				ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ)		
1	Temperature *	°C	Laboratory and Field, Methods (SM 2550B)	28.4	40	01/12/23
2	pH *	-	Electrometric Method (SM 4500 B)	8.63	5.5-9.0	01/12/23
3	Color (Original pH) *	ADMI	} ADMI Weighted-Ordinate	15	300	06/12/23
	Color (pH 7) *	ADMI		14	300	06/12/23
4	TSS	mg/L	Dried at 103-105 °C (SM 2540 D)	14.8	50	06/12/23
5	TDS *	mg/L	Dried at 180 °C (SM 2540 C)	314	3,000	07/12/23
6	DO *	mg/L	Membrane Electrode (SM 4500 G)	5.62	-	01/12/23
7	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	20	06-11/12/23
8	COD *	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	23	120	06/12/23
9	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.6	5	06/12/23
10	Cr ⁺³ *	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B) ; Calculation	< 0.02	0.75	12/12/23
11	Cr ⁺⁶ *	mg/L	Filtration, Colorimetric Method (SM 3500-Cr B)	< 0.02	0.25	06/12/23
12	Hg *	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.005	07/12/23
13	Cd	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.02	0.03	07/12/23
14	Ni	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.03	1.0	07/12/23
15	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.04	0.2	07/12/23

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: ผ่านการบำบัดจากบ่อฝั้งแล้ว (บ่อกักเก็บน้ำ) = 47P 0736238 UTM 1437670

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Natural Resources and Environment (2010) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

14.12.23

Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

14.12.23

END OF REPORT

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TEST REPORT

Analysis No. : R23-2316

Received Date: 24/07/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Sample Conditions : 2307-WF0565 = brown turbid/high brown sediment, Flow Rate = 0.8 m³/s

Report Date : 04/08/23

Analysis Date : 21/07-04/08/23

Job No. : S660135/July

Sampling Date : 21/07/23

Sampling By : TET

Type of Sample : Surface Water

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2307-WF0565		
				คลองปลวกแดง บริเวณฝายน้ำล้นของหมู่ 4		
1	pH	-	Electrometric Method (SM 4500 B)	8.00	5.0-9.0	21/07/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	191.0	-	27/07/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	80	-	27/07/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	5.03	≥ 4.0	21/07/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	2.0	26-31/07/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	32	-	24/07/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	-	25/07/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	46.6	-	25/07/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	14	-	25/07/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	27	-	25/07/23
11	Cr ⁺⁶	mg/L	Digestion, Electrothermal AAS Method (SM 3030 E and 3113 B)	< 0.001	0.05	02/08/23
12	Pb	mg/L		0.010	0.05	25/07/23
13	Cd	mg/L		< 0.001	0.005 ⁽¹⁾	26/07/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP (SM 3030F and 3120B)	< 0.010	0.1	04/08/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.002	25/07/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	> 1.6 x 10 ⁵	20,000	24-28/07/23

Remarks : คลองปลวกแดงบริเวณฝายน้ำล้นของหมู่ 4 = 47P 0738779 UTM 1437122

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

04.08.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

04.08.23



TEST REPORT

Analysis No. : R23-2316
Received Date: 24/07/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาพิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 04/08/23
Analysis Date : 21/07-04/08/23
Job No. : S660135/July
Sampling Date : 21/07/23
Sampling By : TET
Type of Sample : Surface Water

Sample Conditions : 2307-WF0566 = brown turbid/high brown sediment, Flow Rate = 3.5 m³/s

2307-WF0568 = brown turbid/high brown sediment, Flow Rate = 3.5 m³/s

Item	Parameter	Unit	Method	Result		Standard	Analysis Date
				คลองหินลอย			
				2307-WF0566	2307-WF0568		
				ต้นน้ำก่อน จุดปล่อย 1.5 กม.	ท้ายน้ำหลัง จุดปล่อย 4.6 กม.		
1	pH	-	Electrometric Method (SM 4500 B)	7.61	8.31	5.0-9.0	21/07/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	450.6	496.8	-	27/07/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	116	122	-	27/07/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	6.29	6.40	≥ 4.0	21/07/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	3	2.0	26-31/07/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	36	46	-	24/07/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	0.8	-	25/07/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	57.3	57.3	-	25/07/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	13	16	-	25/07/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	39	38	-	25/07/23
11	Cr ⁺⁶	mg/L	Digestion, Electrothermal AAS Method (SM 3030 E and 3113 B)	< 0.001	< 0.001	0.05	02/08/23
12	Pb	mg/L		0.013	0.014	0.05	25/07/23
13	Cd	mg/L		< 0.001	< 0.001	0.005 ⁽¹⁾	26/07/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP (SM 3030F and 3120B)	0.011	0.010	0.1	04/08/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	< 0.0005	0.002	25/07/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	> 1.6 x 10 ⁵	> 1.6 x 10 ⁵	20,000	24-28/07/23

Remarks : คลองหินลอย (ต้นน้ำก่อนจุดปล่อย 1.5 กม.) = 47P 0734389 UTM 1437715
คลองหินลอย (ท้ายน้ำหลังจุดปล่อย 4.6 กม.) = 47P 0739124 UTM 1435196

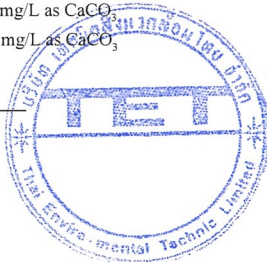
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.08.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
04.08.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-2316
Received Date: 24/07/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาพิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 04/08/23
Analysis Date : 21/07-04/08/23
Job No. : S660135/July
Sampling Date : 21/07/23
Sampling By : TET
Type of Sample : Surface Water

Sample Conditions : 2307-WF0567 = brown turbid/high brown sediment, Flow Rate = 3.5 m³/s

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2307-WF0567		
				คล่องหินลอย (จุดปล่อยน้ำทิ้ง)		
1	pH	-	Electrometric Method (SM 4500 B)	7.98	5.0-9.0	21/07/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	464.2	-	27/07/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	124	-	27/07/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	6.50	≥ 4.0	21/07/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	2.0	26-31/07/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	29	-	24/07/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	-	25/07/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	68.4	-	25/07/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	14	-	25/07/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	40	-	25/07/23
11	Cr ⁺⁶	mg/L	Digestion, Electrothermal AAS Method (SM 3030 E and 3113 B)	< 0.001	0.05	02/08/23
12	Pb	mg/L		0.014	0.05	25/07/23
13	Cd	mg/L		< 0.001	0.005 ⁽¹⁾	26/07/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP (SM 3030F and 3120B)	0.010	0.1	04/08/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.002	25/07/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	> 1.6 x 10 ⁵	20,000	24-28/07/23

Remarks : คล่องหินลอย (จุดปล่อยน้ำทิ้ง) = 47P 0735877 UTM 1436519

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

- (1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04/08/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
04/08/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-2316
Received Date: 24/07/23
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด
Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังคายน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140
Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 04/08/23
Analysis Date : 21/07-04/08/23
Job No. : S660135/July
Sampling Date : 21/07/23
Sampling By : TET
Type of Sample : Surface Water

Sample Conditions : 2307-WF0569 = brown turbid/high brown sediment, Flow Rate = 8.3 m³/s

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2307-WF0569		
				คลองโปร่งน้ำปิดบริเวณสถานีสูบน้ำ สุขาภิบาล ปลวกแดง		
1	pH	-	Electrometric Method (SM 4500 B)	8.51	5.0-9.0	21/07/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	482.6	-	27/07/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	104	-	27/07/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	5.27	≥ 4.0	21/07/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	4	2.0	26-31/07/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	53	-	24/07/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.7	-	25/07/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	53.4	-	25/07/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	13	-	25/07/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	38	-	25/07/23
11	Cr ⁺⁶	mg/L	Digestion, Electrothermal AAS Method (SM 3030 E and 3113 B)	< 0.001	0.05	02/08/23
12	Pb	mg/L		0.014	0.05	25/07/23
13	Cd	mg/L		< 0.001	0.005 ⁽¹⁾	26/07/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP (SM 3030F and 3120B)	0.010	0.1	04/08/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.002	25/07/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	> 1.6 x 10 ⁵	20,000	24-28/07/23

Remarks : คลองโปร่งน้ำปิดบริเวณสถานีสูบน้ำสุขาภิบาล ปลวกแดง = 47P 0739704 UTM 1434893

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

- (1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04/08/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
04/08/23

..... END OF REPORT



TEST REPORT

Analysis No. : R23-3791

Received Date: 27/11/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Report Date : 18/12/23

Analysis Date : 25/11-14/12/23

Job No. : S660135/Nov/2

Sampling Date : 25/11/23

Sampling By : TET

Type of Sample : Surface Water

Sample Conditions : 2311-WF0630 = yellow turbid/slight yellow sediment/smell, Flow Rate = 0.4 m³/s

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2311-WF0630		
				คลองปลวกแดง บริเวณฝายน้ำล้นของหมู่ 4		
1	pH	-	Electrometric Method (SM 4500 B)	7.66	5.0-9.0	25/11/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	7.0	-	28/11/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	308	-	29/11/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	3.92	≥ 4.0	25/11/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	3	2.0	29/11-04/12/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	34	-	27/11/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.7	-	28/11/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	87.3	-	28/11/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	9	-	01/12/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	71	-	28/11/23
11	Cr ⁺⁶	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	< 0.004	0.05	06/12/23
12	Pb	mg/L		< 0.01	0.05	30/11/23
13	Cd *	mg/L		< 0.001	0.005 ⁽¹⁾	11-14/12/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	< 0.005	0.1	30/11/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0006	0.002	29/11/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	2.2 x 10 ⁴	20,000	27/11-01/12/23

Remarks

* Subcontractor
: คลองปลวกแดงบริเวณฝายน้ำล้นของหมู่ 4 = 47P 0738779 UTM 1437122

Method

: SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard

: Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃

Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
18/12/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
18/12/23



TEST REPORT

Analysis No. : R23-3791

Received Date: 27/11/23

Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750 Fax. (02) 385 8881

Sample Conditions : 2311-WF0631 = yellow turbid/high yellow sediment/smell, Flow Rate = 2.9 m³/s

2311-WF0633 = yellow turbid/high yellow sediment/smell, Flow Rate = 0.6 m³/s

Report Date : 18/12/23

Analysis Date : 25/11-14/12/23

Job No. : S660135/Nov/2

Sampling Date : 25/11/23

Sampling By : TET

Type of Sample : Surface Water

Item	Parameter	Unit	Method	Result		Standard	Analysis Date
				คลองหินลอย			
				2311-WF0631	2311-WF0633		
				ต้นน้ำก่อน จุดปล่อย 1.5 กม.	ท้ายน้ำหลัง จุดปล่อย 4.6 กม.		
1	pH	-	Electrometric Method (SM 4500 B)	7.32	7.50	5.0-9.0	25/11/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	676.6	61.5	-	28/11/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	292	342	-	29/11/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	3.85	3.69	≥ 4.0	25/11/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	4	2	2.0	29/11-04/12/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	43	15	-	27/11/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	0.8	-	28/11/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	137.1	140.5	-	28/11/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	8	11	-	01/12/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	69	84	-	28/11/23
11	Cr ⁺⁶	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	< 0.004	< 0.004	0.05	06/12/23
12	Pb	mg/L		0.02	< 0.01	0.05	30/11/23
13	Cd *	mg/L		Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition 2023, Part 3125B by ICP-MS	0.001	< 0.001	0.05 ⁽¹⁾
14	Ni	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	0.018	0.010	0.1	30/11/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0005	0.0006	0.002	29/11/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	1.6 x 10 ⁵	9.2 x 10 ⁴	20,000	27/11-01/12/23

Remarks

- * Subcontractor
: คลองหินลอย (ต้นน้ำก่อนจุดปล่อย 1.5 กม.) = 47P 0734389 UTM 1437715
คลองหินลอย (ท้ายน้ำหลังจุดปล่อย 4.6 กม.) = 47P 0739124 UTM 1435196

Method

- : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard

- : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3
(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Mrs. Wareerut Prachumdaeng
Chief of Laboratory
18.12.23

Approved by

Mrs. Porntip Pethshee
Laboratory Manager
18.12.23





TEST REPORT

Analysis No. : R23-3791

Received Date: 27/11/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาหิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Sample Conditions : 2311-WF0632 = yellow turbid/high yellow sediment/smell, Flow Rate = 1.1 m³/s

Report Date : 18/12/23

Analysis Date : 25/11-14/12/23

Job No. : S660135/Nov/2

Sampling Date : 25/11/23

Sampling By : TET

Type of Sample : Surface Water

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2311-WF0632		
				คล่องหินลอย (จุดปล่อยน้ำทิ้ง)		
1	pH	-	Electrometric Method (SM 4500 B)	7.52	5.0-9.0	25/11/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	49.3	-	28/11/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	350	-	29/11/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	4.41	≥ 4.0	25/11/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	2.0	29/11-04/12/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	17	-	27/11/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.8	-	28/11/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	142.2	-	28/11/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	8	-	01/12/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	78	-	28/11/23
11	Cr ⁺⁶	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	< 0.004	0.05	06/12/23
12	Pb	mg/L		< 0.01	0.05	30/11/23
13	Cd *	mg/L		< 0.001	0.05 ⁽¹⁾	11-14/12/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	0.013	0.1	30/11/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	0.0005	0.002	29/11/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	1.6 x 10 ⁵	20,000	27/11-01/12/23

Remarks : * Subcontractor
: คล่องหินลอย (จุดปล่อยน้ำทิ้ง) = 47P 0735877 UTM 1436519

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃

Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

19.12.23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

19.12.23



TEST REPORT

Analysis No. : R23-3791

Received Date: 27/11/23

Customer : Technical Division of Thai Environmental Technic Limited

For บริษัท จี. เค. แลนด์ จำกัด

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่
ตำบลปลวกแดง อำเภอปลวกแดง จังหวัดระยอง 21140

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Sample Conditions : 2311-WF0634 = yellow turbid/high yellow sediment/smell, Flow Rate = 1.3 m³/s

Report Date : 18/12/23

Analysis Date : 25/11-14/12/23

Job No. : S660135/Nov/2

Sampling Date : 25/11/23

Sampling By : TET

Type of Sample : Surface Water

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2311-WF0634		
				คลองโปรงน้ำปิดบริเวณสถานีสูบน้ำ สุขาภิบาล ปลวกแดง		
1	pH	-	Electrometric Method (SM 4500 B)	7.67	5.0-9.0	25/11/23
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	58.1	-	28/11/23
3	TDS	mg/L	Dried at 180 °C (SM 2540 C)	316	-	29/11/23
4	DO	mg/L	Membrane Electrode (SM 4500 G)	5.16	≥ 4.0	25/11/23
5	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	2	2.0	29/11-04/12/23
6	COD	mg/L	Closed Reflux Titrimetric Method (SM 5220 C)	12	-	27/11/23
7	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.7	-	28/11/23
8	Hardness	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340 C)	145.0	-	28/11/23
9	Acidity	mg/L	Titrimetric Method (SM 2310 B)	9	-	01/12/23
10	Alkalinity	mg/L	Titrimetric Method (SM 2320 B)	76	-	28/11/23
11	Cr ⁺⁶	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	< 0.004	0.05	06/12/23
12	Pb	mg/L		< 0.01	0.05	30/11/23
13	Cd *	mg/L		< 0.001	0.05 ⁽¹⁾	11-14/12/23
14	Ni	mg/L	Digestion, Pre-concentration, ICP-OES Method (SM 3030F and 3120B)	0.009	0.1	30/11/23
15	Hg	mg/L	Cold-Vapor AAS Method (SM 3112 B)	< 0.0005	0.002	29/11/23
16	Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (SM 9221 B&C)	> 1.6 x 10 ⁵	20,000	27/11-01/12/23

Remarks : * Subcontractor
: คลองโปรงน้ำปิดบริเวณสถานีสูบน้ำสุขาภิบาล ปลวกแดง = 47P 0739704 UTM 1434893

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; when hardness more than 100 mg/L as CaCO₃

Standard Cd = 0.005 mg/L ; when hardness less than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

18/12/23

Approved by

Mrs. Porntip Pethshee

Laboratory Manager

17/12/23

END OF REPORT



TEST REPORT

Customer Name : บริษัท จี. เค. แลนด์ จำกัด/

Report No. : 2316/2023/5-6

โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์

Report Date : July 27, 2023

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่

Sampling Date : July 20-23, 2023

ตำบลปลวกแดง อำเภอลวกแดง จังหวัดระยอง 21140

Type of Sample : Sound Level

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Job No. : S660135/July

Item	Time	Result (dB(A))											
		บ้านวังตาผิน											
		20-21/07/23				21-22/07/23				22-23/07/23			
		Leq	Lmax	L ₅₀	L ₉₀	Leq	Lmax	L ₅₀	L ₉₀	Leq	Lmax	L ₅₀	L ₉₀
1.	12:00-13:00	58.5	85.3	56.5	51.2	68.2	73.3	68.1	66.0	64.3	72.7	62.9	61.3
2.	13:00-14:00	58.1	79.2	55.3	50.5	67.3	70.0	67.0	65.6	61.8	75.0	61.2	59.4
3.	14:00-15:00	57.2	68.0	55.8	51.2	66.8	76.2	66.5	65.7	61.4	80.4	59.4	56.4
4.	15:00-16:00	58.6	70.4	56.3	51.1	68.3	70.6	67.9	66.7	60.1	74.7	58.8	56.1
5.	16:00-17:00	57.2	70.3	55.8	51.0	68.3	75.6	68.0	66.6	59.4	70.4	58.1	53.7
6.	17:00-18:00	59.1	74.1	57.0	52.0	68.8	75.7	68.2	67.1	59.6	74.6	57.3	53.0
7.	18:00-19:00	58.2	76.8	55.9	51.1	66.0	68.0	66.0	64.7	58.3	75.2	56.2	51.6
8.	19:00-20:00	58.8	78.0	56.8	52.3	64.2	68.1	64.4	61.1	60.0	76.8	57.4	52.8
9.	20:00-21:00	59.3	76.6	56.7	52.4	65.5	70.8	64.5	61.7	59.7	73.8	58.1	54.1
10.	21:00-22:00	60.4	74.9	58.5	54.7	65.9	73.1	65.0	63.2	61.0	74.1	58.9	55.9
11.	22:00-23:00	60.3	74.9	58.6	55.7	62.0	74.8	61.6	56.7	59.5	73.7	58.1	55.6
12.	23:00-00:00	59.5	74.6	57.6	54.7	61.0	80.4	58.0	53.0	60.4	72.5	58.7	56.0
13.	00:00-01:00	59.5	79.6	57.8	54.6	63.7	82.0	60.2	56.7	61.2	76.7	60.1	56.2
14.	01:00-02:00	62.2	82.1	60.9	56.7	64.3	81.4	61.3	58.4	62.6	75.9	61.7	59.6
15.	02:00-03:00	59.7	74.2	58.3	55.2	63.9	78.2	61.8	58.4	60.9	71.0	60.2	57.6
16.	03:00-04:00	62.0	77.4	61.0	57.6	63.4	80.3	60.1	56.9	60.4	71.4	59.6	56.6
17.	04:00-05:00	68.7	75.1	66.0	60.2	60.6	74.9	59.3	56.1	60.3	82.4	57.6	54.0
18.	05:00-06:00	66.9	71.5	65.2	62.8	60.6	80.2	58.9	54.8	58.2	70.3	56.9	52.5
19.	06:00-07:00	69.1	71.7	68.5	66.8	60.1	76.8	57.8	53.4	59.0	79.3	56.8	53.2
20.	07:00-08:00	63.8	69.7	63.9	59.5	59.3	72.1	57.5	53.9	57.6	75.4	55.1	51.1
21.	08:00-09:00	63.1	68.3	62.2	59.6	59.7	77.1	58.0	54.7	56.4	72.0	54.1	51.4
22.	09:00-10:00	62.6	73.3	62.2	58.5	62.6	76.3	61.8	59.0	56.6	77.4	53.2	51.1
23.	10:00-11:00	63.3	69.8	63.1	60.0	63.7	79.4	62.6	60.5	58.5	80.4	52.5	50.1
24.	11:00-12:00	68.1	72.5	67.4	65.3	64.5	72.4	64.3	62.4	54.7	67.5	52.0	49.9
Leq 24 hr		63.2	-	-	-	65.0	-	-	-	60.1	-	-	-
Lmax		-	85.3	-	-	-	82.0	-	-	-	82.4	-	-
Standard ^{(1) (2)}		70	115	-	-	70	115	-	-	70	115	-	-
Ldn		70.9	-	-	-	69.6	-	-	-	66.8	-	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager



TEST REPORT

Customer Name : บริษัท จี. เค. แลนด์ จำกัด/

Report No. : 2316/2023/6-6

โครงการเขตประกอบการอุตสาหกรรม จี. เค. แลนด์

Report Date : July 27, 2023

Address : 119 หมู่ที่ 4 ถนนปลวกแดง-วังตาผิน-สะพานสี่

Sampling Date : July 20-23, 2023

ตำบลปลวกแดง อำเภอลวกแดง จังหวัดระยอง 21140

Type of Sample : Sound Level

Contact : Tel. (02) 385 7750

Fax. (02) 385 8881

Job No. : S660135/July

Item	Time	Result (dB(A))											
		ชุมชนในพื้นที่โครงการ											
		20-21/07/23				21-22/07/23				22-23/07/23			
		Leq	Lmax	L ₅₀	L ₉₀	Leq	Lmax	L ₅₀	L ₉₀	Leq	Lmax	L ₅₀	L ₉₀
1.	11:00-12:00	64.8	86.5	58.3	49.9	49.8	71.5	49.6	48.4	64.2	78.7	61.0	59.4
2.	12:00-13:00	60.5	80.5	54.0	47.2	63.9	90.8	57.1	48.7	63.7	78.2	60.2	59.1
3.	13:00-14:00	58.5	74.3	53.4	46.7	66.0	85.7	56.5	53.6	62.7	85.9	58.8	57.9
4.	14:00-15:00	60.7	75.5	58.7	57.3	61.1	82.1	52.2	50.4	64.2	96.6	67.0	54.0
5.	15:00-16:00	61.7	83.9	59.5	58.1	65.0	82.5	59.2	54.2	64.5	83.2	57.2	51.9
6.	16:00-17:00	62.9	79.0	59.2	58.3	69.5	94.8	64.8	57.0	59.5	81.9	52.1	50.4
7.	17:00-18:00	61.8	79.6	58.7	57.7	68.5	90.7	65.5	62.3	63.8	91.0	52.0	49.7
8.	18:00-19:00	59.2	74.5	58.2	57.3	66.0	81.9	64.3	60.2	68.7	98.0	53.6	50.2
9.	19:00-20:00	61.0	81.7	58.9	58.0	65.6	85.1	60.7	59.3	62.7	87.3	51.2	49.7
10.	20:00-21:00	61.2	81.9	58.9	57.6	64.6	83.7	60.7	59.7	63.5	87.2	51.6	49.7
11.	21:00-22:00	61.6	77.6	58.4	57.2	66.7	85.9	62.5	59.9	52.9	72.2	50.0	47.9
12.	22:00-23:00	63.9	86.9	59.7	57.5	66.3	87.5	64.0	62.5	67.6	96.4	48.2	47.3
13.	23:00-00:00	68.0	87.6	65.6	59.4	67.1	90.3	64.1	61.1	49.6	71.2	47.8	46.8
14.	00:00-01:00	65.7	84.7	60.8	57.3	65.4	86.6	63.1	61.0	51.0	74.5	48.1	46.5
15.	01:00-02:00	67.2	95.9	59.6	57.7	68.8	84.3	63.8	62.3	49.4	68.0	47.4	46.4
16.	02:00-03:00	61.8	94.4	59.2	57.2	65.4	83.4	63.1	61.6	47.6	65.3	46.8	45.5
17.	03:00-04:00	63.8	82.3	56.0	53.0	67.4	82.1	62.9	61.8	49.1	66.9	48.4	47.0
18.	04:00-05:00	63.1	87.0	60.9	55.5	66.6	82.8	62.5	61.4	49.8	54.8	49.3	48.2
19.	05:00-06:00	68.7	90.1	67.4	65.4	66.8	86.7	62.2	60.5	59.5	92.0	51.1	50.2
20.	06:00-07:00	68.1	78.6	65.2	62.6	63.0	78.3	61.0	60.1	51.8	71.6	50.5	49.9
21.	07:00-08:00	63.4	95.3	60.6	56.8	62.7	80.2	60.2	52.7	53.0	57.9	52.6	51.8
22.	08:00-09:00	64.3	82.1	61.4	56.1	65.8	85.3	59.7	58.0	53.0	60.0	52.8	52.1
23.	09:00-10:00	63.3	81.3	62.8	58.3	65.7	80.3	53.5	45.2	52.4	57.5	52.3	50.2
24.	10:00-11:00	65.1	79.2	52.1	50.2	67.4	82.2	65.1	61.8	48.4	69.8	43.7	42.7
Leq 24 hr		64.2	-	-	-	66.1	-	-	-	61.7	-	-	-
Lmax		-	95.9	-	-	-	94.8	-	-	-	98.0	-	-
Standard ^{(1) (2)}		70	115	-	-	70	115	-	-	70	115	-	-
Ldn		72.2	-	-	-	72.9	-	-	-	66.3	-	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager