

# ภาคผนวก ค

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ผลการตรวจวัดคุณภาพสิ่งแวดล้อม

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศโดยทั่วไป



## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.  
888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur  
Muang, Rayong Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242902**

Date Received : May 25, 2022

Date Reported : Jun 07, 2022

Report Number : 2280453-1C2

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	ชุมชนสามัคคี-ชากกลาง (A1)** (Mabchalood - Chakklang)				
<b>Date Analysis Commenced</b>	May 27, 2022				
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2242902-1	May 18 - May 19, 2022	0.032	0.018	756	30
2242902-2	May 19 - May 20, 2022	0.032	0.015	756	29
2242902-3	May 20 - May 21, 2022	0.042	0.016	756	31
2242902-4	May 21 - May 22, 2022	0.037	0.014	756	30
2242902-5	May 22 - May 23, 2022	0.029	0.014	756	29
2242902-6	May 23 - May 24, 2022	0.045	0.018	756	31
2242902-7	May 24 - May 25, 2022	0.048	0.026	756	31
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Sitpawit Suwannarat

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

**Client** : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang,

Rayong Thailand 21150

**P/O** : ContractofAgreement2022

**Project Name** :

**Project Location** :

**Lot ID** : 2242930

Date Received : May 25, 2022

Date Reported : Jun 01, 2022

Report Number : 2280483-1

Page 1 of 2

**Sample Number** : 2242930-1 to 7  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนมาบชลด-ชากกลาง (A1)\*\* (Mabchalood - Chakklang)  
**Sampling Date** : May 18 - May 25, 2022  
**Sampling by** : Sitpawit Suwannarat

Time	May 18 - May 19, 2022			May 19 - May 20, 2022			May 20 - May 21, 2022			May 21 - May 22, 2022			May 22 - May 23, 2022			May 23 - May 24, 2022			May 24 - May 25, 2022		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	2.6	4.0	N	1.0	5.0	N	4.5	4.0	N	1.6	5.0	N	0.5	63.0	ENE	1.4	72.0	ENE	0.3	12.0	NNE
11:00 AM - 12:00 PM	1.2	10.0	N	1.2	331.0	NNW	2.0	304.0	NW	1.1	17.0	NNE	0.0	-	-	0.5	122.0	ESE	1.2	19.0	NNE
12:00 PM - 01:00 PM	1.3	353.0	N	0.9	329.0	NNW	3.3	9.0	N	1.1	38.0	NE	0.3	0.0	N	0.5	122.0	ESE	1.0	13.0	NNE
01:00 PM - 02:00 PM	1.6	341.0	NNW	0.8	291.0	WNW	1.7	359.0	N	1.8	359.0	N	0.7	5.0	N	0.3	11.0	N	0.9	24.0	NNE
02:00 PM - 03:00 PM	0.7	341.0	NNW	1.5	327.0	NNW	5.2	359.0	N	2.3	48.0	NE	1.3	0.0	N	0.4	3.0	N	1.0	16.0	NNE
03:00 PM - 04:00 PM	0.8	15.0	NNE	2.5	13.0	NNE	1.9	335.0	NNW	2.0	0.0	N	0.9	31.0	NNE	0.5	358.0	N	0.3	8.0	N
04:00 PM - 05:00 PM	2.6	357.0	N	0.5	359.0	N	2.7	0.0	N	0.9	11.0	N	0.9	52.0	NE	0.3	2.0	N	0.3	0.0	N
05:00 PM - 06:00 PM	1.4	42.0	NE	1.4	23.0	NNE	1.0	35.0	NE	1.2	22.0	NNE	4.5	334.0	NNW	2.6	330.0	NNW	1.9	10.0	N
06:00 PM - 07:00 PM	2.1	16.0	NNE	1.8	16.0	NNE	2.5	338.0	NNW	3.0	0.0	N	1.5	348.0	NNW	2.5	0.0	N	0.8	34.0	NE
07:00 PM - 08:00 PM	1.5	359.0	N	1.8	359.0	N	1.9	2.0	N	1.7	0.0	N	3.4	335.0	NNW	1.5	56.0	NE	0.3	341.0	NNW
08:00 PM - 09:00 PM	0.3	0.0	N	0.8	0.0	N	2.6	10.0	N	3.8	2.0	N	1.5	27.0	NNE	5.8	9.0	N	2.2	339.0	NNW
09:00 PM - 10:00 PM	0.5	25.0	NNE	0.8	300.0	WNW	1.0	21.0	NNE	3.3	11.0	N	5.0	338.0	NNW	1.3	0.0	N	0.6	307.0	NW
10:00 PM - 11:00 PM	1.1	30.0	NNE	1.0	20.0	NNE	0.7	20.0	NNE	1.8	29.0	NNE	5.0	11.0	N	0.9	313.0	NW	4.1	23.0	NNE
11:00 PM - 12:00 AM	0.7	130.0	SE	0.8	355.0	N	0.9	126.0	SE	2.7	4.0	N	5.7	30.0	NNE	1.0	21.0	NNE	6.5	5.0	N
12:00 AM - 01:00 AM	1.2	41.0	NE	1.8	218.0	SW	1.6	5.0	N	1.2	21.0	NNE	0.6	65.0	ENE	2.8	359.0	N	1.9	15.0	NNE
01:00 AM - 02:00 AM	0.9	359.0	N	1.3	359.0	N	1.1	17.0	NNE	1.4	26.0	NNE	0.5	62.0	ENE	0.3	35.0	NE	0.4	77.0	ENE
02:00 AM - 03:00 AM	1.6	36.0	NE	1.5	21.0	NNE	1.1	38.0	NE	0.6	39.0	NE	0.5	9.0	N	1.4	294.0	WNW	0.5	44.0	NE
03:00 AM - 04:00 AM	2.0	345.0	NNW	2.5	359.0	N	1.8	359.0	N	4.6	338.0	NNW	0.9	27.0	NNE	0.6	359.0	N	0.5	54.0	NE
04:00 AM - 05:00 AM	0.3	338.0	NNW	0.4	340.0	NNW	2.3	48.0	NE	2.8	0.0	N	0.4	48.0	NE	0.3	0.0	N	0.8	25.0	NNE
05:00 AM - 06:00 AM	0.7	28.0	NNE	1.1	22.0	NNE	2.0	0.0	N	0.4	46.0	NE	3.1	10.0	N	0.8	13.0	NNE	0.6	9.0	N
06:00 AM - 07:00 AM	0.9	18.0	NNE	1.4	15.0	NNE	0.9	11.0	N	0.3	33.0	NNE	2.1	71.0	ENE	0.3	0.0	N	0.3	63.0	ENE
07:00 AM - 08:00 AM	0.6	21.0	NNE	0.9	331.0	NNW	1.2	22.0	NNE	0.3	359.0	N	1.8	72.0	ENE	0.4	64.0	ENE	0.3	63.0	ENE
08:00 AM - 09:00 AM	1.2	52.0	NE	1.3	43.0	NE	3.0	0.0	N	0.9	25.0	NNE	1.2	72.0	ENE	0.8	15.0	NNE	0.3	63.0	ENE
09:00 AM - 10:00 AM	0.8	12.0	NNE	1.4	17.0	NNE	1.7	0.0	N	1.2	28.0	NNE	1.6	72.0	ENE	0.0	-	-	0.3	63.0	ENE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang,  
Rayong Thailand 21150

**P/O :** ContractofAgreement2022

**Project Name :**

**Project Location :**

**Lot ID :** 2242930

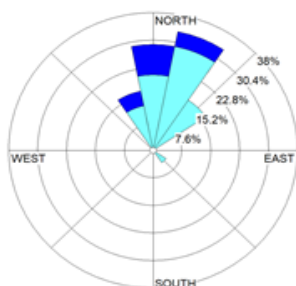
Date Received : May 25, 2022

Date Reported : Jun 01, 2022

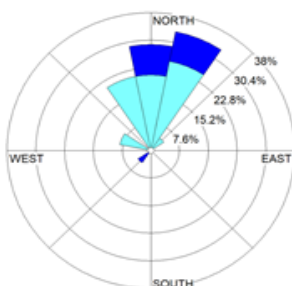
Report Number : 2280483-1

Page 2 of 2

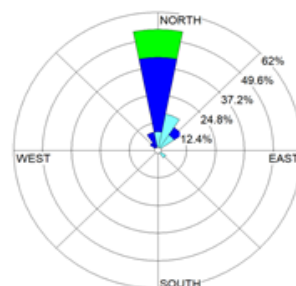
### Wind Rose



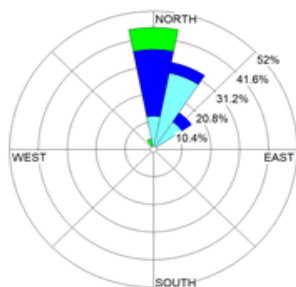
**Date : May 18-19, 2022**



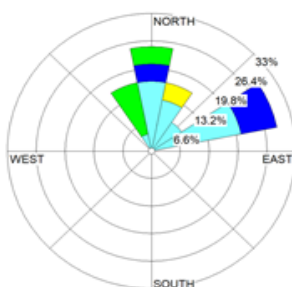
**Date : May 19-20, 2022**



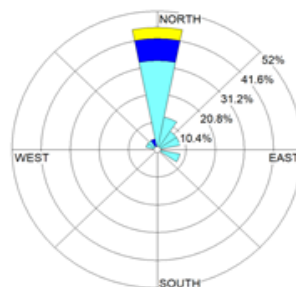
**Date : May 20-21, 2022**



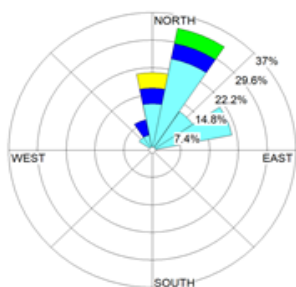
**Date : May 21-22, 2022**



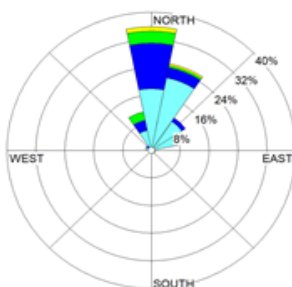
**Date : May 22-23, 2022**



**Date : May 23-24, 2022**



**Date : May 24-25, 2022**



**Date : May 18-25, 2022**

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	1.78
3.3-5.5	6.55
1.7-3.3	22.62
0.3-1.7	67.86
Calms	1.19

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Approved by

Sarayuth Jitranont  
Assistant General Manager

# ภาคผนวก ค-2

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ระดับเสียงโดยทั่วไป



## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334374-1C2

Page 1 of 1

**Sample Number** 2242908-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 18 - May 19, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.6	84.6	46.0
11:00 AM - 12:00 PM	50.2	68.6	45.8
12:00 PM - 01:00 PM	50.4	68.4	45.3
01:00 PM - 02:00 PM	52.1	79.2	45.5
02:00 PM - 03:00 PM	48.0	68.2	45.2
03:00 PM - 04:00 PM	48.4	69.9	46.5
04:00 PM - 05:00 PM	47.0	71.0	45.7
05:00 PM - 06:00 PM	46.6	66.9	45.5
06:00 PM - 07:00 PM	57.5	77.6	53.4
07:00 PM - 08:00 PM	62.8	84.8	59.4
08:00 PM - 09:00 PM	56.1	64.5	55.1
09:00 PM - 10:00 PM	57.4	61.5	56.4
10:00 PM - 11:00 PM	57.1	60.2	56.3
11:00 PM - 12:00 AM	54.5	66.3	53.6
12:00 AM - 01:00 AM	51.5	65.6	50.3
01:00 AM - 02:00 AM	52.7	68.7	48.0
02:00 AM - 03:00 AM	58.2	72.2	47.7
03:00 AM - 04:00 AM	54.7	72.0	47.1
04:00 AM - 05:00 AM	53.5	73.9	46.6
05:00 AM - 06:00 AM	60.6	70.7	57.1
06:00 AM - 07:00 AM	55.6	75.6	48.3
07:00 AM - 08:00 AM	54.3	72.9	47.5
08:00 AM - 09:00 AM	52.0	86.3	46.1
09:00 AM - 10:00 AM	49.0	67.9	43.8

Leq Average 24 hrs. (dB(A)) 55.5  
Lmax (dB(A)) 86.3  
L90 (dB(A)) 47.1  
Ldn (dB(A)) 62.5  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334375-1C2

Page 1 of 1

**Sample Number** 2242908-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 19 - May 20, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.9	68.9	46.7
11:00 AM - 12:00 PM	50.5	74.6	44.6
12:00 PM - 01:00 PM	49.4	69.8	45.5
01:00 PM - 02:00 PM	52.1	73.2	46.2
02:00 PM - 03:00 PM	47.4	64.7	44.6
03:00 PM - 04:00 PM	47.5	67.1	45.2
04:00 PM - 05:00 PM	46.7	70.5	45.4
05:00 PM - 06:00 PM	46.7	59.3	45.6
06:00 PM - 07:00 PM	46.2	64.7	45.0
07:00 PM - 08:00 PM	46.0	61.4	44.8
08:00 PM - 09:00 PM	46.1	58.1	44.8
09:00 PM - 10:00 PM	45.4	55.4	44.3
10:00 PM - 11:00 PM	45.7	67.1	44.1
11:00 PM - 12:00 AM	45.0	61.1	43.8
12:00 AM - 01:00 AM	46.1	63.8	43.9
01:00 AM - 02:00 AM	48.5	63.5	44.0
02:00 AM - 03:00 AM	49.1	85.0	37.6
03:00 AM - 04:00 AM	45.9	71.3	36.0
04:00 AM - 05:00 AM	58.4	92.0	40.5
05:00 AM - 06:00 AM	49.7	75.1	43.0
06:00 AM - 07:00 AM	52.5	72.7	44.6
07:00 AM - 08:00 AM	50.3	68.5	45.2
08:00 AM - 09:00 AM	50.0	67.7	44.7
09:00 AM - 10:00 AM	49.6	68.5	44.4

Leq Average 24 hrs. (dB(A)) 50.1  
Lmax (dB(A)) 92.0  
L90 (dB(A)) 44.6  
Ldn (dB(A)) 57.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334376-1C2

Page 1 of 1

**Sample Number** 2242908-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 20 - May 21, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.5	69.5	47.3
11:00 AM - 12:00 PM	51.1	75.2	45.2
12:00 PM - 01:00 PM	50.0	70.4	46.1
01:00 PM - 02:00 PM	52.7	73.8	46.8
02:00 PM - 03:00 PM	48.0	65.3	45.2
03:00 PM - 04:00 PM	48.1	67.7	45.8
04:00 PM - 05:00 PM	47.3	71.1	46.0
05:00 PM - 06:00 PM	47.3	59.9	46.2
06:00 PM - 07:00 PM	46.8	65.3	45.6
07:00 PM - 08:00 PM	46.6	62.0	45.4
08:00 PM - 09:00 PM	46.7	58.7	45.4
09:00 PM - 10:00 PM	46.0	56.0	44.9
10:00 PM - 11:00 PM	46.3	67.7	44.7
11:00 PM - 12:00 AM	45.6	61.7	44.4
12:00 AM - 01:00 AM	46.7	64.4	44.5
01:00 AM - 02:00 AM	49.1	64.1	44.6
02:00 AM - 03:00 AM	55.9	75.7	46.8
03:00 AM - 04:00 AM	60.8	94.6	45.1
04:00 AM - 05:00 AM	53.1	79.7	46.1
05:00 AM - 06:00 AM	52.7	77.6	45.6
06:00 AM - 07:00 AM	51.8	68.8	45.9
07:00 AM - 08:00 AM	49.1	67.3	44.2
08:00 AM - 09:00 AM	48.7	66.5	43.5
09:00 AM - 10:00 AM	48.5	67.3	43.2

Leq Average 24 hrs. (dB(A)) 51.7  
Lmax (dB(A)) 94.6  
L90 (dB(A)) 45.4  
Ldn (dB(A)) 60.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334377-1C2

Page 1 of 1

**Sample Number** 2242908-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 21 - May 22, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	51.3	73.2	44.2
11:00 AM - 12:00 PM	49.6	73.5	43.6
12:00 PM - 01:00 PM	50.4	69.6	45.3
01:00 PM - 02:00 PM	51.2	69.6	45.0
02:00 PM - 03:00 PM	49.9	69.1	44.7
03:00 PM - 04:00 PM	49.6	70.0	44.9
04:00 PM - 05:00 PM	50.0	70.7	44.7
05:00 PM - 06:00 PM	48.6	72.8	45.2
06:00 PM - 07:00 PM	47.2	60.6	44.9
07:00 PM - 08:00 PM	46.6	68.6	44.8
08:00 PM - 09:00 PM	45.9	57.3	45.0
09:00 PM - 10:00 PM	56.9	64.5	54.7
10:00 PM - 11:00 PM	57.5	65.0	57.0
11:00 PM - 12:00 AM	56.0	60.2	55.2
12:00 AM - 01:00 AM	44.9	54.3	43.4
01:00 AM - 02:00 AM	45.1	60.9	43.8
02:00 AM - 03:00 AM	46.1	61.6	44.2
03:00 AM - 04:00 AM	48.4	66.0	45.1
04:00 AM - 05:00 AM	53.3	69.0	45.3
05:00 AM - 06:00 AM	54.7	88.1	43.6
06:00 AM - 07:00 AM	52.9	72.5	43.9
07:00 AM - 08:00 AM	53.2	74.1	46.0
08:00 AM - 09:00 AM	52.8	73.2	46.4
09:00 AM - 10:00 AM	51.9	71.2	45.7

Leq Average 24 hrs. (dB(A)) 52.1  
Lmax (dB(A)) 88.1  
L90 (dB(A)) 44.9  
Ldn (dB(A)) 59.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334378-1C2

Page 1 of 1

**Sample Number** 2242908-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 22 - May 23, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	52.0	69.9	46.1
11:00 AM - 12:00 PM	50.7	70.4	46.0
12:00 PM - 01:00 PM	54.1	72.3	46.7
01:00 PM - 02:00 PM	53.3	69.6	48.1
02:00 PM - 03:00 PM	56.9	92.7	44.8
03:00 PM - 04:00 PM	51.0	69.0	45.9
04:00 PM - 05:00 PM	48.5	67.9	45.1
05:00 PM - 06:00 PM	48.8	69.9	44.7
06:00 PM - 07:00 PM	45.6	62.1	43.2
07:00 PM - 08:00 PM	45.1	60.8	43.4
08:00 PM - 09:00 PM	44.7	56.0	43.7
09:00 PM - 10:00 PM	44.4	71.1	42.9
10:00 PM - 11:00 PM	44.9	51.6	44.1
11:00 PM - 12:00 AM	45.5	52.4	44.2
12:00 AM - 01:00 AM	45.5	54.0	44.1
01:00 AM - 02:00 AM	46.2	61.7	44.2
02:00 AM - 03:00 AM	46.4	67.1	44.3
03:00 AM - 04:00 AM	45.9	63.7	43.7
04:00 AM - 05:00 AM	54.6	71.9	45.2
05:00 AM - 06:00 AM	55.0	83.6	43.8
06:00 AM - 07:00 AM	54.1	79.1	43.5
07:00 AM - 08:00 AM	52.9	71.3	44.4
08:00 AM - 09:00 AM	51.3	70.5	43.8
09:00 AM - 10:00 AM	50.2	73.4	42.5

Leq Average 24 hrs. (dB(A)) 51.2  
Lmax (dB(A)) 92.7  
L90 (dB(A)) 44.2  
Ldn (dB(A)) 57.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334379-1C2

Page 1 of 1

**Sample Number** 2242908-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 23 - May 24, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.5	71.3	42.3
11:00 AM - 12:00 PM	47.5	68.9	42.2
12:00 PM - 01:00 PM	50.7	75.6	43.3
01:00 PM - 02:00 PM	51.1	72.5	43.7
02:00 PM - 03:00 PM	53.8	80.6	46.6
03:00 PM - 04:00 PM	51.2	71.1	43.4
04:00 PM - 05:00 PM	48.0	67.5	43.1
05:00 PM - 06:00 PM	48.8	72.1	43.8
06:00 PM - 07:00 PM	46.0	67.6	44.5
07:00 PM - 08:00 PM	46.2	58.7	45.3
08:00 PM - 09:00 PM	46.7	54.6	45.8
09:00 PM - 10:00 PM	46.6	62.9	45.3
10:00 PM - 11:00 PM	46.6	65.6	45.1
11:00 PM - 12:00 AM	49.8	72.5	46.1
12:00 AM - 01:00 AM	47.5	63.7	45.5
01:00 AM - 02:00 AM	46.7	63.4	45.2
02:00 AM - 03:00 AM	45.8	63.7	44.1
03:00 AM - 04:00 AM	48.3	73.4	44.6
04:00 AM - 05:00 AM	55.2	71.9	45.4
05:00 AM - 06:00 AM	57.5	93.2	44.2
06:00 AM - 07:00 AM	52.4	71.0	44.4
07:00 AM - 08:00 AM	54.5	75.1	45.3
08:00 AM - 09:00 AM	54.8	74.9	45.3
09:00 AM - 10:00 AM	52.3	73.8	45.5

Leq Average 24 hrs. (dB(A)) 51.3  
Lmax (dB(A)) 93.2  
L90 (dB(A)) 44.6  
Ldn (dB(A)) 58.2  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334380-1C2

Page 1 of 1

**Sample Number** 2242908-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 1 (N1)\*\* Mabchalood - Chakklang (N1)  
**Measurement Date** May 24 - May 25, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734221

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	53.6	73.6	45.6
11:00 AM - 12:00 PM	53.7	74.3	45.4
12:00 PM - 01:00 PM	53.9	74.5	46.8
01:00 PM - 02:00 PM	53.3	73.4	47.2
02:00 PM - 03:00 PM	54.0	71.7	46.5
03:00 PM - 04:00 PM	51.4	69.4	44.8
04:00 PM - 05:00 PM	48.6	66.7	44.5
05:00 PM - 06:00 PM	48.1	69.4	44.5
06:00 PM - 07:00 PM	44.5	66.0	43.1
07:00 PM - 08:00 PM	46.6	67.6	45.4
08:00 PM - 09:00 PM	46.4	65.6	45.3
09:00 PM - 10:00 PM	45.1	52.6	44.2
10:00 PM - 11:00 PM	45.2	60.9	44.0
11:00 PM - 12:00 AM	45.4	54.6	44.4
12:00 AM - 01:00 AM	47.0	51.2	45.7
01:00 AM - 02:00 AM	47.0	61.0	45.7
02:00 AM - 03:00 AM	46.5	61.5	44.5
03:00 AM - 04:00 AM	48.6	65.5	44.4
04:00 AM - 05:00 AM	53.4	69.6	45.6
05:00 AM - 06:00 AM	60.1	93.6	44.8
06:00 AM - 07:00 AM	54.8	74.2	44.2
07:00 AM - 08:00 AM	53.4	75.1	44.0
08:00 AM - 09:00 AM	53.0	75.4	45.0
09:00 AM - 10:00 AM	50.1	75.0	44.0

Leq Average 24 hrs. (dB(A)) 52.2  
Lmax (dB(A)) 93.6  
L90 (dB(A)) 44.8  
Ldn (dB(A)) 59.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334381-1C2

Page 1 of 1

**Sample Number** 2242908-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 18 - May 19, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	54.3	78.2	50.8
10:00 AM - 11:00 AM	54.2	73.9	51.6
11:00 AM - 12:00 PM	53.0	68.8	51.2
12:00 PM - 01:00 PM	52.8	70.4	50.9
01:00 PM - 02:00 PM	53.5	71.1	51.0
02:00 PM - 03:00 PM	54.5	73.0	51.3
03:00 PM - 04:00 PM	56.0	73.1	52.3
04:00 PM - 05:00 PM	59.3	76.4	54.2
05:00 PM - 06:00 PM	63.7	70.3	59.8
06:00 PM - 07:00 PM	67.6	80.5	61.9
07:00 PM - 08:00 PM	67.5	79.6	65.2
08:00 PM - 09:00 PM	66.8	71.5	64.1
09:00 PM - 10:00 PM	66.3	71.5	61.9
10:00 PM - 11:00 PM	64.1	73.5	55.8
11:00 PM - 12:00 AM	66.0	75.6	52.0
12:00 AM - 01:00 AM	67.6	75.1	52.2
01:00 AM - 02:00 AM	63.9	74.7	52.4
02:00 AM - 03:00 AM	54.6	77.9	51.5
03:00 AM - 04:00 AM	53.4	74.0	51.1
04:00 AM - 05:00 AM	57.3	76.2	51.9
05:00 AM - 06:00 AM	61.0	84.0	51.0
06:00 AM - 07:00 AM	54.9	81.5	51.5
07:00 AM - 08:00 AM	53.8	75.9	51.9
08:00 AM - 09:00 AM	53.2	72.0	51.3

Leq Average 24 hrs. (dB(A)) 62.6  
Lmax (dB(A)) 84.0  
L90 (dB(A)) 51.9  
Ldn (dB(A)) 69.2  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334382-1C2

Page 1 of 1

**Sample Number** 2242908-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 19 - May 20, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.2	75.7	51.2
10:00 AM - 11:00 AM	53.2	72.1	51.6
11:00 AM - 12:00 PM	53.6	71.2	51.8
12:00 PM - 01:00 PM	54.0	75.7	52.1
01:00 PM - 02:00 PM	55.5	76.2	52.7
02:00 PM - 03:00 PM	55.9	73.5	52.8
03:00 PM - 04:00 PM	58.2	77.2	54.6
04:00 PM - 05:00 PM	64.2	81.6	58.8
05:00 PM - 06:00 PM	65.8	74.7	60.5
06:00 PM - 07:00 PM	65.7	80.3	60.7
07:00 PM - 08:00 PM	64.4	72.0	58.4
08:00 PM - 09:00 PM	64.8	72.0	54.8
09:00 PM - 10:00 PM	62.7	74.3	53.0
10:00 PM - 11:00 PM	63.1	73.1	52.6
11:00 PM - 12:00 AM	62.9	73.7	52.8
12:00 AM - 01:00 AM	58.9	76.6	52.5
01:00 AM - 02:00 AM	55.8	70.4	53.1
02:00 AM - 03:00 AM	55.8	81.1	53.4
03:00 AM - 04:00 AM	55.2	76.1	53.0
04:00 AM - 05:00 AM	60.5	82.6	53.2
05:00 AM - 06:00 AM	56.6	74.4	53.1
06:00 AM - 07:00 AM	69.7	82.9	54.9
07:00 AM - 08:00 AM	62.7	76.2	54.2
08:00 AM - 09:00 AM	57.5	76.1	54.5

Leq Average 24 hrs. (dB(A)) 62.1  
Lmax (dB(A)) 82.9  
L90 (dB(A)) 53.1  
Ldn (dB(A)) 69.0  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2242908

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334383-1C2

Page 1 of 1

**Sample Number** 2242908-10  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 20 - May 21, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	61.4	84.5	55.0
10:00 AM - 11:00 AM	58.1	81.0	54.8
11:00 AM - 12:00 PM	58.6	82.2	54.5
12:00 PM - 01:00 PM	56.3	75.2	52.9
01:00 PM - 02:00 PM	63.8	100.0	52.6
02:00 PM - 03:00 PM	55.8	76.7	52.1
03:00 PM - 04:00 PM	56.1	75.7	52.8
04:00 PM - 05:00 PM	53.7	69.4	51.9
05:00 PM - 06:00 PM	54.2	66.8	51.5
06:00 PM - 07:00 PM	58.1	76.7	52.9
07:00 PM - 08:00 PM	61.2	69.5	54.2
08:00 PM - 09:00 PM	56.8	75.3	52.1
09:00 PM - 10:00 PM	54.5	68.7	52.2
10:00 PM - 11:00 PM	54.7	79.3	51.5
11:00 PM - 12:00 AM	52.2	64.5	51.0
12:00 AM - 01:00 AM	52.5	62.5	51.4
01:00 AM - 02:00 AM	53.7	78.0	51.7
02:00 AM - 03:00 AM	54.6	71.9	51.9
03:00 AM - 04:00 AM	56.3	75.9	52.9
04:00 AM - 05:00 AM	56.0	81.1	52.9
05:00 AM - 06:00 AM	56.5	76.7	52.3
06:00 AM - 07:00 AM	55.8	80.1	52.3
07:00 AM - 08:00 AM	56.1	80.4	52.6
08:00 AM - 09:00 AM	56.6	80.2	52.5

Leq Average 24 hrs. (dB(A)) 57.4  
Lmax (dB(A)) 100.0  
L90 (dB(A)) 52.3  
Ldn (dB(A)) 62.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.  
888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**Lot ID: 2242908**

Date Received : May 25, 2022  
Date Reported : Jun 06, 2022  
Report Number: 2334384-1C2

**P/O :**  
**Project Name :**  
**Project Location :**

Page 1 of 1

**Sample Number** 2242908-11  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 21 - May 22, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	56.3	81.1	51.3
10:00 AM - 11:00 AM	53.2	69.0	50.9
11:00 AM - 12:00 PM	55.8	80.3	51.6
12:00 PM - 01:00 PM	56.2	85.9	51.6
01:00 PM - 02:00 PM	57.3	93.4	50.4
02:00 PM - 03:00 PM	55.0	82.0	50.7
03:00 PM - 04:00 PM	52.8	76.0	50.3
04:00 PM - 05:00 PM	53.9	73.1	51.5
05:00 PM - 06:00 PM	54.0	72.1	50.9
06:00 PM - 07:00 PM	52.1	71.0	49.9
07:00 PM - 08:00 PM	54.3	64.1	49.9
08:00 PM - 09:00 PM	55.5	68.5	49.8
09:00 PM - 10:00 PM	52.5	64.7	49.7
10:00 PM - 11:00 PM	51.0	67.8	49.7
11:00 PM - 12:00 AM	50.6	63.3	49.5
12:00 AM - 01:00 AM	53.3	62.4	49.9
01:00 AM - 02:00 AM	50.7	68.1	49.8
02:00 AM - 03:00 AM	51.2	66.8	50.3
03:00 AM - 04:00 AM	53.3	69.5	51.0
04:00 AM - 05:00 AM	53.7	77.4	50.7
05:00 AM - 06:00 AM	53.9	77.7	50.9
06:00 AM - 07:00 AM	53.4	72.2	51.6
07:00 AM - 08:00 AM	54.5	72.6	52.0
08:00 AM - 09:00 AM	54.2	83.9	51.2

Leq Average 24 hrs. (dB(A)) 54.1  
Lmax (dB(A)) 93.4  
L90 (dB(A)) 50.7  
Ldn (dB(A)) 59.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

Lot ID: 2242908

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334385-1C2

Page 1 of 1

**Sample Number** 2242908-12  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 22 - May 23, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.7	79.1	52.9
10:00 AM - 11:00 AM	57.1	77.2	53.0
11:00 AM - 12:00 PM	56.6	74.2	53.3
12:00 PM - 01:00 PM	57.0	70.6	52.1
01:00 PM - 02:00 PM	52.6	75.9	49.7
02:00 PM - 03:00 PM	53.4	72.6	50.6
03:00 PM - 04:00 PM	52.8	76.7	50.5
04:00 PM - 05:00 PM	58.3	68.9	50.6
05:00 PM - 06:00 PM	54.7	65.3	50.4
06:00 PM - 07:00 PM	51.1	57.7	49.5
07:00 PM - 08:00 PM	50.8	64.1	48.4
08:00 PM - 09:00 PM	51.1	63.5	47.8
09:00 PM - 10:00 PM	51.5	62.3	49.0
10:00 PM - 11:00 PM	50.7	62.6	49.0
11:00 PM - 12:00 AM	50.5	59.4	49.0
12:00 AM - 01:00 AM	50.5	61.6	49.3
01:00 AM - 02:00 AM	50.7	59.2	49.3
02:00 AM - 03:00 AM	52.0	63.0	50.5
03:00 AM - 04:00 AM	53.4	69.5	51.1
04:00 AM - 05:00 AM	53.3	75.5	51.1
05:00 AM - 06:00 AM	54.1	81.3	51.0
06:00 AM - 07:00 AM	53.9	71.7	51.2
07:00 AM - 08:00 AM	55.1	75.0	51.0
08:00 AM - 09:00 AM	53.9	73.7	49.6

Leq Average 24 hrs. (dB(A)) 54.0  
Lmax (dB(A)) 81.3  
L90 (dB(A)) 50.5  
Ldn (dB(A)) 59.2  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334386-1C2

Page 1 of 1

**Sample Number** 2242908-13  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 23 - May 24, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.4	75.7	49.8
10:00 AM - 11:00 AM	54.5	76.2	50.2
11:00 AM - 12:00 PM	53.8	72.1	51.0
12:00 PM - 01:00 PM	54.1	76.7	50.4
01:00 PM - 02:00 PM	55.5	81.2	51.8
02:00 PM - 03:00 PM	53.4	72.0	49.9
03:00 PM - 04:00 PM	51.8	69.9	49.7
04:00 PM - 05:00 PM	53.7	77.1	50.3
05:00 PM - 06:00 PM	56.5	68.1	51.8
06:00 PM - 07:00 PM	52.1	73.2	50.5
07:00 PM - 08:00 PM	50.8	59.6	49.4
08:00 PM - 09:00 PM	51.6	71.5	49.2
09:00 PM - 10:00 PM	51.9	64.4	49.8
10:00 PM - 11:00 PM	51.4	64.4	49.6
11:00 PM - 12:00 AM	50.6	62.8	49.1
12:00 AM - 01:00 AM	50.7	60.6	49.0
01:00 AM - 02:00 AM	51.8	74.7	49.7
02:00 AM - 03:00 AM	51.9	57.4	50.1
03:00 AM - 04:00 AM	52.4	68.4	49.6
04:00 AM - 05:00 AM	53.2	71.1	50.4
05:00 AM - 06:00 AM	54.9	75.0	51.4
06:00 AM - 07:00 AM	56.0	84.7	51.9
07:00 AM - 08:00 AM	57.4	81.1	52.1
08:00 AM - 09:00 AM	56.5	77.0	52.3

Leq Average 24 hrs. (dB(A)) 53.8  
Lmax (dB(A)) 84.7  
L90 (dB(A)) 50.1  
Ldn (dB(A)) 59.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ  
โรงงาน พ.ศ. 2548

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

Client : Kuraray GC Advanced Materials Co., Ltd.

888 Green Building, Mapchalood-Leamson Road, Tambol Huai Pong, Amphur Muang, Rayong  
Thailand 21150

P/O :

Project Name :

Project Location :

**Lot ID: 2242908**

Date Received : May 25, 2022

Date Reported : Jun 06, 2022

Report Number: 2334387-1C2

Page 1 of 1

**Sample Number** 2242908-14  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนมาบชลด-ชากกลาง จุดที่ 2 (N2)\*\* Mabchalood - Chakklang (N2)  
**Measurement Date** May 24 - May 25, 2022  
**Measurement by** Sitpawit Suwannarat  
**Sound Level meter** Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	55.1	71.3	51.8
10:00 AM - 11:00 AM	55.0	69.9	51.3
11:00 AM - 12:00 PM	58.3	82.3	52.6
12:00 PM - 01:00 PM	57.1	79.1	52.5
01:00 PM - 02:00 PM	56.5	80.5	50.8
02:00 PM - 03:00 PM	53.1	72.1	49.5
03:00 PM - 04:00 PM	53.9	72.9	50.0
04:00 PM - 05:00 PM	53.2	72.1	49.8
05:00 PM - 06:00 PM	54.7	69.6	50.0
06:00 PM - 07:00 PM	53.1	73.5	48.7
07:00 PM - 08:00 PM	50.2	65.2	48.0
08:00 PM - 09:00 PM	51.2	70.7	48.2
09:00 PM - 10:00 PM	50.3	62.5	48.4
10:00 PM - 11:00 PM	49.8	58.7	48.3
11:00 PM - 12:00 AM	49.7	62.6	48.5
12:00 AM - 01:00 AM	50.6	62.5	48.6
01:00 AM - 02:00 AM	50.5	59.3	49.4
02:00 AM - 03:00 AM	51.6	67.2	49.9
03:00 AM - 04:00 AM	58.7	73.5	52.1
04:00 AM - 05:00 AM	57.5	75.9	52.9
05:00 AM - 06:00 AM	54.8	73.2	51.1
06:00 AM - 07:00 AM	54.2	72.6	50.3
07:00 AM - 08:00 AM	52.1	67.8	50.1
08:00 AM - 09:00 AM	55.6	72.5	52.4

Leq Average 24 hrs. (dB(A)) 54.5  
Lmax (dB(A)) 82.3  
L90 (dB(A)) 50.0  
Ldn (dB(A)) 60.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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โรงงาน พ.ศ. 2548

Technical Management

N. Banchongkit

Narumon Banchongkit  
Supervisor

Approved by

Supot S.

Supot Salamteh  
Section Head

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# ภาคผนวก ค-3

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คุณภาพดินและน้ำใต้ดิน

## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 27, 2022  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : JANUARY 30, 2022  
**ANALYTICAL DATE** : JANUARY 30 - FEBRUARY 9, 2022  
**REPORT NO.** : 2022-U010318  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB621-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-01 (UPPER) T22AB621-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	9.53	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.



(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

FEBRUARY 15, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL **RECEIVED DATE** : JANUARY 30, 2022  
**SAMPLING DATE** : JANUARY 27, 2022 **ANALYTICAL DATE** : JANUARY 30 - FEBRUARY 9, 2022  
**SAMPLING TIME** : 11:00 HOUR **REPORT NO.** : 2022-U010319  
**SAMPLING METHOD** : UNDISTURBED **WORK NO.** : 2021-009448  
**SAMPLING BY** : MR THANADET WANSANOR **ANALYSIS NO.** : T22AB621-0002  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-01 (LOWER) T22AB621-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	15.7	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

FEBRUARY 15, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL **RECEIVED DATE** : JANUARY 26, 2022  
**SAMPLING DATE** : JANUARY 24, 2022 **ANALYTICAL DATE** : JANUARY 26 - FEBRUARY 4, 2022  
**SAMPLING TIME** : 09:45 HOUR **REPORT NO.** : 2022-U008992  
**SAMPLING METHOD** : UNDISTURBED **WORK NO.** : 2021-009448  
**SAMPLING BY** : MR THANADET WANSANOR **ANALYSIS NO.** : T22AB391-0001  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-02 (UPPER) T22AB391-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	8.36	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.



(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 24, 2022  
**SAMPLING TIME** : 14:25 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : JANUARY 26, 2022  
**ANALYTICAL DATE** : JANUARY 26 - FEBRUARY 4, 2022  
**REPORT NO.** : 2022-U008993  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB391-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-02 (LOWER) T22AB391-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
<b>METALS</b>					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	20.0	≤ 1,000	0.350
<b>VOLATILE ORGANIC COMPOUNDS</b>					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE(S) ANALYSED ON AS RECEIVED BASIS. RESULT(S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 20, 2022  
**SAMPLING TIME** : 09:20 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : JANUARY 21, 2022  
**ANALYTICAL DATE** : JANUARY 21 - FEBRUARY 4, 2022  
**REPORT NO.** : 2022-U008981  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB251-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-03 (UPPER) T22AB251-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
<b>METALS</b>					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	6.00	≤ 1,000	0.350
<b>VOLATILE ORGANIC COMPOUNDS</b>					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS, RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL **RECEIVED DATE** : JANUARY 21, 2022  
**SAMPLING DATE** : JANUARY 20, 2022 **ANALYTICAL DATE** : JANUARY 21 - FEBRUARY 4, 2022  
**SAMPLING TIME** : 10:50 HOUR **REPORT NO.** : 2022-U008982  
**SAMPLING METHOD** : UNDISTURBED **WORK NO.** : 2021-009448  
**SAMPLING BY** : MR THANADET WANSANOR **ANALYSIS NO.** : T22AB251-0002  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-03 (LOWER) T22AB251-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	17.1	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 13, 2022  
**SAMPLING TIME** : 09:00 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : JANUARY 19, 2022  
**ANALYTICAL DATE** : JANUARY 19 - FEBRUARY 1, 2022  
**REPORT NO.** : 2022-U008761  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB023-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-04 (UPPER) T22AB023-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	19.2	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 13, 2022  
**SAMPLING TIME** : 11:00 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : JANUARY 19, 2022  
**ANALYTICAL DATE** : JANUARY 19 - FEBRUARY 1, 2022  
**REPORT NO.** : 2022-U008762  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB023-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-04 (LOWER) T22AB023-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	4.99	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

FEBRUARY 8, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 17, 2022  
**SAMPLING TIME** : 09:45 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : JANUARY 19, 2022  
**ANALYTICAL DATE** : JANUARY 19 - FEBRUARY 1, 2022  
**REPORT NO.** : 2022-U009234  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB024-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-05 (UPPER) T22AB024-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	38.4	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 16, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : JANUARY 17, 2022  
**SAMPLING TIME** : 14:45 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : JANUARY 19, 2022  
**ANALYTICAL DATE** : JANUARY 19 - FEBRUARY 1, 2022  
**REPORT NO.** : 2022-U009235  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AB024-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-05 (LOWER) T22AB024-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	20.2	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE(S) ANALYSED ON AS RECEIVED BASIS. RESULT(S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 16, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 2, 2022  
**SAMPLING TIME** : 08:50 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS LADDAWAN PHOPHAN  
**RECEIVED DATE** : FEBRUARY 7, 2022  
**ANALYTICAL DATE** : FEBRUARY 7-23, 2022  
**REPORT NO.** : 2022-U014551  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC089-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-06 (UPPER) T22AC089-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	9.44	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS, RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 1, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 2, 2022  
**SAMPLING TIME** : 14:20 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS LADDAWAN PHOPHAN

**RECEIVED DATE** : FEBRUARY 7, 2022  
**ANALYTICAL DATE** : FEBRUARY 7-23, 2022  
**REPORT NO.** : 2022-U014552  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC089-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-06 (LOWER) T22AC089-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	22.1	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.



(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

MARCH 1, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 8, 2022  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD  
**RECEIVED DATE** : FEBRUARY 11, 2022  
**ANALYTICAL DATE** : FEBRUARY 11-28, 2022  
**REPORT NO.** : 2022-U015781  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC565-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-07 (UPPER) T22AC565-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	18.9	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

MARCH 7, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 8, 2022  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 11, 2022  
**ANALYTICAL DATE** : FEBRUARY 11-28, 2022  
**REPORT NO.** : 2022-U015782  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC565-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-07 (LOWER) T22AC565-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	10.6	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND		0.01
SAMPLE CONDITION			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 5, 2022  
**SAMPLING TIME** : 08:10 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 8, 2022  
**ANALYTICAL DATE** : FEBRUARY 8-23, 2022  
**REPORT NO.** : 2022-U014553  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC160-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-08 (UPPER) T22AC160-0001		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	13.8	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29 B.E.2559 (2016).

SAMPLE(S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

MARCH 3, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : FEBRUARY 5, 2022  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD** : UNDISTURBED  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 8, 2022  
**ANALYTICAL DATE** : FEBRUARY 8-23, 2022  
**REPORT NO.** : 2022-U014554  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC160-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MW-08 (LOWER) T22AC160-0002		
FORMALDEHYDE (SC)	mg/kg	ASTM D6191	< 10	-	3
METALS					
ZINC (Zn)	mg/kg	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	5.30	≤ 1,000	0.350
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,700	0.01
TOLUENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 520	0.01
METHANOL	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	≤ 1,000	0.01
1,3-BUTADIENE	mg/kg	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2006: 8260C)	ND	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

ND : NON-DETECTABLE.

SC : THE TEST WAS SUBCONTRACTED TO THE ANOTHER LABORATORY.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 3, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 15:20 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015846  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-01 T22AC781-0001		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-01 T22AC781-0001		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010		0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 16, 2022  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015893  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC782-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW 2 T22AC782-0001		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW 2 T22AC782-0001		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010		0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 14:25 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR. NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015847  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-03 T22AC781-0002		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	0.030	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-03 T22AC781-0002		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	—	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 12:00 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD  
**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015848  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-04 T22AC781-0003		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-04 T22AC781-0003		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010		0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 16, 2022  
**SAMPLING TIME** : 10:35 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015894  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC782-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW 5 T22AC782-0002		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND		0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW 5 T22AC782-0002		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	-	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 11:05 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD  
**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015871  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-06 T22AC781-0004		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-06 T22AC781-0004		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	0.0041	-	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE

< LOQ : < LEVEL OF QUANTITATION (ZINC  $\geq$  0.003 AND < 0.025 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 10:25 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD  
**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015872  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-07 T22AC781-0005		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-07 T22AC781-0005		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	—	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAJ)  
LABORATORY SUPERVISOR

MARCH 7, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : FEBRUARY 15, 2022  
**SAMPLING TIME** : 09:45 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR NAPASIT SRIPIM  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015874  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : T22AC781-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-08 T22AC781-0006		
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	≤ 10	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 24	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	≤ 5.0	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	≤ 60	0.0010



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			GW-08 T22AC781-0006		
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	-	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

ND : NON-DETECTABLE.

< LOQ : < LEVEL OF QUANTITATION (ZINC  $\geq$  0.003 AND < 0.025 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 7, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : BLANK (GROUNDWATER)  
**SAMPLING DATE** : -  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : -  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015845  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : 2022-FB0153, 2022-TB0152

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2022-FB0153	2 2022-TB0152	
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	ND	0.05
METALS					
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	ND	0.003
VOLATILE ORGANIC COMPOUNDS					
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	< 0.0002	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	< 0.0002	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	< 0.0010	0.0010
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	< 0.0010	0.0010
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	COLOURLESS/CLEAR	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
RESULT 1 : FIELD BLANK  
RESULT 2 : TRIP BLANK  
ND : NON-DETECTABLE.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

MARCH 7, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ANAKOD ECOLOGY REIWA CO., LTD.  
**ADDRESS** : 210/120 MOO 1, PANWITHEE ROAD BANG PHRIANG BANG BO SAMUT PRAKAN 10560  
**CONTACT INFORMATION** : TEL : 0 2347 5931 e-mail : kawamura@anakod.net  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : BLANK (GROUNDWATER)  
**SAMPLING DATE** : -  
**SAMPLING TIME** : -  
**SAMPLING METHOD** : -  
**SAMPLING BY** : -  
**ANALYZED BY** : MISS SUDARAT CHANPRATHAD

**RECEIVED DATE** : FEBRUARY 17, 2022  
**ANALYTICAL DATE** : FEBRUARY 17 - MARCH 3, 2022  
**REPORT NO.** : 2022-U015844  
**WORK NO.** : 2021-009448  
**ANALYSIS NO.** : 2022-EB0025

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			EQUIPMENT BLANK 2022-EB0025	
FORMALDEHYDE	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	0.05
<b>METALS</b>				
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.003
<b>VOLATILE ORGANIC COMPOUNDS</b>				
STYRENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	0.0002
TOLUENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0002	0.0002
METHANOL	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	0.0010
1,3-BUTADIENE	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: 6200 B)	< 0.0010	0.0010
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT				

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
ND : NON-DETECTABLE.

*Benjawan V.*  
(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

MARCH 7, 2022

