



Accreditation No. 1031/47

Analysis / Test Report

Client : M. Water Co., Ltd.

1 Soi Vibhavadee-Rangsit 41 Yak 1, Sanambin, Donmuang, Bangkok Thailand 10210

P/O : MPO6801/00138

Project Name :

Project Location :

Lot ID: 251335

Date Received : Jan 11, 2025

Date Reported : Jan 22, 2025

Report Number : 3210759-1

Page 1 of 4

Sample Number	251335-1
Sampled Date	Jan 10, 2025 9:21 PM
Sample Description	Sprinkle Drinking Water on January 2025
Date Analysis Commenced	Jan 11, 2025
Condition of Sample	Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.0005	≤0.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Chromium	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Copper	mg/L	0.0003	0.0005	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Iron	mg/L	0.003	0.005	Not Detected	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok

PASSED

Wipawan Jantamong
22/01/25

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Sample Number	251335-1
Sampled Date	Jan 10, 2025 9:21 PM
Sample Description	Sprinkle Drinking Water on January 2025
Date Analysis Commenced	Jan 11, 2025
Condition of Sample	Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Zinc	mg/L	0.003	0.005	0.01	≤3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Microbiological Testing							
<i>Clostridium perfringens</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-012 in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9260 A,B - FDA BAM online, 2001 (Chapter 16)	Bangkok
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 F	Bangkok
<i>Salmonella spp.</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9260 B	Bangkok
Standard Plate Count	CFU/mL	-	-	<1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, Part 9215 B	Bangkok
<i>Staphylococcus aureus</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-054 in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9213 B - FDA BAM online, 2016 (Chapter 12)	Bangkok

PASSED

Wipawan Jantawong
22/01/25

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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P/O : MPO6801/00138

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Date Received : Jan 11, 2025

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Report Number : 3210759-1

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Sample Number	251335-1						
Sampled Date	Jan 10, 2025 9:21 PM						
Sample Description	Sprinkle Drinking Water on January 2025						
Date Analysis Commenced	Jan 11, 2025						
Condition of Sample	Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Alkylbenzene Sulfonate as MBAS	mg/L	0.05	0.1	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5540 C	Bangkok
Chloride as Cl	mg/L	0.06	0.2	2.0	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color	Color unit	-	5	<5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.07	In-house method : STM 04-007 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Bangkok
Fluoride as F	mg/L	0.05	0.1	Not Detected	≤0.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Nitrate as N	mg/L	0.06	0.2	<0.2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Odour	-	-	-	Odourless	Non Objectionable	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2150 B	Bangkok
pH at 25 degree C	-	-	-	7.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok

PASSED

Wipawan Jantanon
22/01/25

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Sawitree Noisangiam
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Date Received : Jan 11, 2025

Date Reported : Jan 22, 2025

Report Number : 3210759-1

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Sample Number 251335-1
Sampled Date Jan 10, 2025 9:21 PM
Sample Description Sprinkle Drinking Water on January 2025
Date Analysis Commenced Jan 11, 2025
Condition of Sample Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.0005	0.001	Not Detected	≤0.001	In-house method : STM 04-022 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 C	Bangkok
Sulfate	mg/L	0.15	0.5	1.2	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO ₃	mg/L	0.5	1	<1	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.25	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

Guideline : Thai Industrial Standard No. 257-2549 refer to Notification of the Ministry of Industry No. 3470 (B.E. 2549).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

PASSED

Wipawan Jantanong
22/01/25

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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Date Received : Jan 11, 2025

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Report Number : 3210759-2

Page 1 of 1

Sample Number	251335-1
Sampled Date	Jan 10, 2025 9:21 PM
Sample Description	Sprinkle Drinking Water on January 2025
Date Analysis Commenced	Jan 13, 2025
Condition of Sample	Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/L	0.003	0.005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd Edition, 2017, part 3125	Bangkok
Water Testing							
Total Solids Dried at 103-105 degree C	mg/L	-	5	9	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 B	Bangkok

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553

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Approved by

Sawitree N.

Sawitree Noisangiam

Manager

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Lot ID: 251335

Date Received : Jan 11, 2025
Date Reported : Jan 22, 2025
Report Number : 3210759-3

Page 1 of 1

Sample Number 251335-1
Sampled Date Jan 10, 2025 9:21 PM
Sample Description Sprinkle Drinking Water on January 2025
Date Analysis Commenced Jan 14, 2025
Condition of Sample Contained in two glass vials and eight plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Bromate	mg/L	0.001	0.005	<0.005	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok

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PASSED

Wipawan Jantawong
22/01/25

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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