

The following sample(s) was/were submitted and identified by client as:

Sample Name : Water

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 4682903

Sample Condition : For Chemical testing, water appears transparent contained in a plastic gallon sealed with a plastic lid and kept at cool temperature.  
For Microbiological testing, water appears transparent contained in plastic bottles sealed with plastic lid and kept at a cool temperature.

Qty.Submitted : 1 gallon, 2 plastic bottles

Date Received : 17-Feb-2020

Date Commenced : 17-Feb-2020

Test Items	Method	LOD	LOQ	Results	Spec.	Units
Color	In-house method SOP No. LBEN-06127 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 2120 C	-	1	Less than 1	Not more than 20	Pt.Co
Odor	TIS 257, 2-2521	-	-	None	None	
Turbidity	In-house method SOP No. LBEN-97052 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 2130 B.	-	0.5	Less than 0.5	Not more than 5	NTU
pH @ 23.5 deg.C	In-house method SOP No. LBEN-18014 based on based on Standard methods for the examination of water & wastewater, APHA, AWWA & WEF 23rd ed.,2017,4500 H B	-	-	6.6	6.5-8.5	pH unit

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Test Items	Method	LOD	LOQ	Results	Spec.	Units
Total solids	In-house method SOP No. LBEN-97043 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 2540 B	-	10	128	Not more than 500	mg/L
Hardness, Total (as CaCO3)	In-house method SOP No. LBEN-99077 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 2340 C.	-	1	Less than 1	Not more than 100	mg/L
Arsenic (As)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3114C	0.0001	0.001	Less than 0.001	Not more than 0.05	mg/L
Barium (Ba)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.002	0.01	Not detected	Not more than 1.0	mg/L
Cadmium (Cd)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.0003	0.002	Not detected	Not more than 0.005	mg/L

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Test Items	Method	LOD	LOQ	Results	Spec.	Units
Chloride as Chlorine	In-house method SOP No. LBEN-97011 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 4500-Cl D	-	1	4	Not more than 250	mg/L
Chromium(Cr)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.001	0.01	Not detected	Not more than 0.05	mg/L
Copper (Cu)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.0002	0.01	Less than 0.01	Not more than 1.0	mg/L
Iron (Fe)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120 B	0.002	0.02	0.06	Not more than 0.3	mg/L
Lead (Pb)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120 B	0.001	0.01	Not detected	Not more than 0.05	mg/L

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Test Items	Method	LOD	LOQ	Results	Spec.	Units
Manganese (Mn)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.0003	0.01	Less than 0.01	Not more than 0.05	mg/L
Mercury (Hg)	In-house method SOP No. LBEN-14001 based on United States Environmental Protection Agency,1994, method 245.7 Revision 2.0, 2005	0.0001	0.0005	Not detected	Not more than 0.002	mg/L
Nitrate (as N)	In-house method SOP No. LBEN-97028 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 4500-NO3 E.	0.002	0.02	0.21	Not more than 4.0	mg/L
Phenols	In-house method SOP No. LBEN-09151 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 5530 C and EPA 420.1,rev.1978	0.0003	0.001	Not detected	Not more than 0.001	mg/L
Selenium (Se)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3114C	0.0003	0.005	Not detected	Not more than 0.01	mg/L

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Test Items	Method	LOD	LOQ	Results	Spec.	Units
Silver (Ag)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.0003	0.01	Not detected	Not more than 0.05	mg/L
Sulfate	In-house method SOP No. LBEN-14002 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 4500-SO4 E	0.17	2.00	Less than 2.00	Not more than 250	mg/L
Zinc (Zn)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.01	0.02	Not detected	Not more than 5.0	mg/L
Fluoride (as Fluorine)	In-house method SOP No. LBEN-97050 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 4500-F D	0.008	0.05	0.27	Not more than 1.5	mg/L
Aluminium (Al)	In-house method SOP No. LBEN-99084 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 3120B	0.005	0.01	Not detected	Not more than 0.2	mg/L

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Test Items	Method	LOD	LOQ	Results	Spec.	Units
Alkyl Benzyl Sulfonate (ABS)	In-house method SOP No. LBEN-98058 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 5540C	0.01	0.05	Less than 0.05	Not more than 0.2	mg/L
Cyanide (CN)	In-house method SOP No. LBEN-00091 based on Standard Methods for the Examination of Water and Wastewater, APHA,AWWA,WEF 23rd ed.,2017,part 4500-CN E	0.001	0.01	Not detected	Not more than 0.1	mg/L
Coliforms	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017, Part 9221 B	-	-	23	< 2.2	MPN/100mL
<i>E.coli</i>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017, Part 9221 F and FDA BAM Online, 2017 (Chapter 4) -E. coli	-	-	Not detected	Not detected	Per 100mL
<i>Salmonella spp.</i>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017, Part 9260 B	-	-	Not detected	Not detected	Per 100mL
<i>Staphylococcus aureus</i>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017, Part 9213 B and FDA BAM Online, 2016 (Chapter 12) -S.aureus	-	-	Not detected	Not detected	Per 100mL

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Date : 29-Feb-2020

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Remark : 1. LOD = "Limit of Detection"

2. Less than = Lower than LOQ "Limit of Quantitation"

3. The water specifications are referred to the Notification of The Ministry of Public Health No.61 B.E. 2524, No.135 B.E. 2534 and No.364 B.E. 2556

4. The water specification of fluoride is referred to the Notification of The Ministry of Public Health No.6 B.E.2553.

**Signed for and on behalf of  
SGS (Thailand) Limited**

**Patcharee Treporncharoen  
Laboratory manager - Chemical**

\*\*\*\*\* End of Report \*\*\*\*\*

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