Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Cordillera Administrative Region
Regional Standards and Testing Laboratory

DOH ACCREDITED
WATER TESTING LABORATORY
14-001-17-LW-1

PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2005
LA-2009-131B

DENR RECOGNIZED
C.R No. 078/2015

FDA ACCREDITED
FDA LA-2014-018

REPORT OF ANALYSIS

Req. Ref. No. : CAR-102017-MIC-0753
Date Submitted : October 12, 2017
Date Analyzed : October 12-14, 2017
Date Reported : October 16, 2017
Submitted by : Customer Name :
Name of Company : **LA TRINIDAD WATER DISTRICT**
Address : Km. 4, La Trinidad, Benguet

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD (PNS for Drinking Water, 2007)
MIC-1743	**Water sample placed in sterilized glass bottle, covered with orange cap, without seal and with label, AFTER UV.**	**Total Coliform Count**	**< 1.1 MPN/100mL**	**<1.1 MPN/100mL**
		E. coli	**< 1.1 MPN/100mL**	**<1.1 MPN/100mL**
		Heterotrophic Plate Count	**22* CFU/mL**	**<500 CFU/mL**

METHODOLOGY:
Total Coliform Count / *Escherichia coli*
Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215B; 9221A, B and C; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.
Heterotrophic Plate Count.
Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215A and B.

REMARKS: The results given in this report are those obtained at the time of test and refer only to the particular sample submitted. This report shall not be reproduced except in full, without the written approval of the laboratory.
*Estimated Heterotrophic Plate Count

Analyzed by:

MARVI JOY L. BALABAG
Analyst

Certified by:

JAMIE BETH B. GALIAN
Approved PAB Signatory

Confirmed and Approved for Release by:

NANCY A. BANTOG
Quality Manager

Note: Not valid without DOST-CAR seal

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD (PNS for Drinking Water, 2007)
MIC-1742	**Water sample placed in sterilized glass bottle, covered with orange cap, without seal and with label, BEFORE UV.**	**Total Coliform Count**	**< 1.1 MPN/100mL**	**<1.1 MPN/100mL**
		E. coli	**< 1.1 MPN/100mL**	**<1.1 MPN/100mL**
		Heterotrophic Plate Count	**28* CFU/mL**	**<500 CFU/mL**

METHODOLOGY:
Total Coliform Count / *Escherichia coli*
Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215B; 9221A, B and C; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.
Heterotrophic Plate Count.
Pour Plate - Colony Forming Units (CFU) per mL. Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215A and B.

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FDA LA-2014-018

REPORT OF ANALYSIS

Req. Ref. No. : CAR-102017-MIC-0741 & 0751
Date Submitted : October 9, 2017
Date Analyzed : October 9-11, 2017
Date Reported : October 17, 2017
Submitted by : Customer Name :
Name of Company : **LA TRINIDAD WATER DISTRICT**
Address : Km. 4, Balili, La Trinidad, Benguet

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD (PNS for Drinking Water, 2007)
MIC-1682 to 1698 and MIC-1730 to 1732	17 Domestic water samples from terminal points placed in sterilized reagent bottle and with written label, 2_T, 3_T, 4_T, 5_T, 6_T, 8_T, 9_T, 12_T, 14_T, $Lubas_T$, $JICA_{T1}$, $JICA_{T2}$ $PPSS_{T1}$, $SWAMP_T$, A_T, $PICOWELL_{T1}$ and $PICOWELL_{T2}$	Total Coliform Count	2_T – <1.1 MPN/100 mL 3_T – <1.1 MPN/100 mL 4_T – <1.1 MPN/100 mL 5_T – <1.1 MPN/100 mL 6_T – <1.1 MPN/100 mL 8_T – <1.1 MPN/100 mL 9_T – <1.1 MPN/100 mL 12_T – <1.1 MPN/100 mL 14_T – <1.1 MPN/100 mL $Lubas_T$ – <1.1 MPN/100 mL $JICA_{T1}$ – <1.1 MPN/100 mL $JICA_{T2}$ – <1.1 MPN/100 mL $PPSS_{T1}$ – 2.6 MPN/100 mL $SWAMP_T$ –<1.1MPN/100 mL A_T – <1.1 MPN/100 mL $PICOWELL_{T1}$ –<1.1MPN/100mL $PICOWELL_{T2}$ –<1.1MPN/100mL	<1.1 MPN/ 100 mL
		E. coli	All samples (terminal) – <1.1 MPN/100 mL	<1.1 MPN/ 100 mL
		Heterotrophic Plate Count	2_T – 910 CFU/mL 3_T – <1* CFU/mL 4_T – <1* CF/mL 5_T – <1* CFU/mL 6_T – <1* CFU/mL 8_T – 2* CFU/mL 9_T – <1* CFU/mL 12_T – <1* CFU/mL 14_T – 220 CFU/mL $Lubas_T$– 190 CFU/mL $JICA_{T1}$ – <1* CFU/ml $JICA_{T2}$ – <1* CFU/mL $PPSS_{T1}$ – 76 CFU/mL $SWAMP_T$ – <1* CFU/mL A_T – <1* CFU/mL $PICOWELL_{T1}$ – <1* CFU/mL $PICOWELL_{T2}$ –<1.1MPN/100mL	<500 CFU/mL

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REPORT OF ANALYSIS

Req. Ref. No. : CAR-102017-MIC-0741 & 0751
Date Submitted : October 9, 2017
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Date Reported : October 17, 2017
Submitted by : Customer Name :
Name of Company : **LA TRINIDAD WATER DISTRICT**
Address : Km. 4, Balili, La Trinidad, Benguet

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METHODOLOGY:
Total Coliform Count / *Escherichia coli*
Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215B; 9221A, B and C; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.
Heterotrophic Plate Count.
Pour Plate - Colony Forming Units (CFU) per ml. Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215A and B.

REMARKS: **Domestic water samples from all terminal points NEGATIVE for *E. coli*. Heterotrophic Plate Count of all water samples are within the standard limit set by the PNSDW.**

The results given in this report are those obtained at the time of test and refer only to the particular sample submitted. This report shall not be reproduced except in full, without the written approval of the laboratory.
*Estimated Heterotrophic Plate Count

Analyzed by:	Certified by:	Confirmed and Approved for Release by:
CLARISA ANGELLI L. NAGPALA	**JAMIE BETH B. GALIAN**	**NANCY A. BANTOG**
Analyst	Approved PAB Signatory	Quality Manager

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REPORT OF ANALYSIS

Req. Ref. No. : CAR-102017-MIC-0742 and MIC-0751
Date Submitted : October 9, 2017
Date Analyzed : October 9-11, 2017
Date Reported : October 17, 2017
Submitted by : Customer Name :
Name of Company : **LA TRINIDAD WATER DISTRICT**
Address : Km. 4, La Trinidad, Benguet

SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD (PNS for Drinking Water, 2007)
MIC-1699 to 1715 and MIC-1733 to 1740	**17 Domestic water samples from source points placed in sterilized reagent bottle and with written label, 2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$, $PICO_{S1}$, and $PICO_{S2}$.**	**Total Coliform Count**	**2_S – >8 MPN/100 mL 3_S – <1.1 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – <1.1 MPN/100 mL 6_S – <1.1 MPN/100 mL 8_S – <1.1 MPN/100 mL 9_S – <1.1 MPN/100 mL 12_S – <1.1 MPN/100mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – >8 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – 2.6 MPN/100mL $JICA_{S2}$ – <1.1 MPN/100mL $SWAMP_S$ – <1.1 MPN/100mL $PICO_{S1}$ – 2.6 MPN/100mL $PICO_{S2}$ – <1.1 MPN/100mL**	**<1.1 MPN/100mL**
		E. coli	**2_S – >8 MPN/100 mL 4_S – <1.1 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – >8 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – 2.6 MPN/100mL $PICO_{S1}$ – <1.1 MPN/100mL**	**<1.1 MPN/100mL**

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Page : Page 2 of 2

MIC-1699 to 1715 and MIC-1733 to 1740	**17 Domestic water samples from source points placed in sterilized reagent bottle and with written label, 2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$, $PICO_{S1}$, and $PICO_{S2}$.**	**Heterotrophic Plate Count**	**2_S – 237 CFU/mL 3_S – <1* CFU/mL 4_S – 13* CFU/mL 5_S – <1* CFU/mL 6_S – <1* CFU/mL 8_S – 50 CFU/mL 9_S – <1* CFU/mL 12_S – <1* CFU/mL 14_S – 1,565 CFU/mL $Lubas_S$– 59 CFU/mL A_S – 22* CFU/mL $PPSS_S$ – 1,085 CFU/mL $JICA_{S1}$ –134 CFU/mL $JICA_{S2}$ – <1* CFU/mL $SWAMP_S$– 1,155 CFU/mL $PICO_{S1}$– 12* CFU/100mL $PICO_{S2}$– 87 CFU/100mL**	**<500 CFU/mL**

METHODOLOGY:

Total Coliform Count / *Escherichia coli*

Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215B; 9221A, B and C; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.

Heterotrophic Plate Count.

Pour Plate - Colony Forming Units (CFU) per ml. Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215A and B.

REMARKS: **Domestic water samples from 2_S, 14s, $Lubas_S$, A_S, $PPSS_S$ and $JICA_{S1}$ are POSITIVE for *E. coli*.**

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* Estimated Heterotrophic Plate Count

Analyzed by:

JAMIE BETH B. GALIAN
Approved PAB Signatory

Confirmed and Approved for Release by:

NANCY A. BANTOG
Quality Manager

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SAMPLE CODE	SAMPLE DESCRIPTION	TEST	RESULT	STANDARD (PNS for Drinking Water, 2007)
MIC-1699 to 1715 and MIC-1733 to 1740	17 Domestic water samples from source points placed in sterilized reagent bottle and with written label, 2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$, $PICO_{S1}$, and $PICO_{S2}$.	Total Coliform Count	2_S – >8 MPN/100 mL 3_S – <1.1 MPN/100 mL 4_S – >8 MPN/100 mL 5_S – <1.1 MPN/100 mL 6_S – <1.1 MPN/100 mL 8_S – <1.1 MPN/100 mL 9_S – <1.1 MPN/100 mL 12_S – <1.1 MPN/100mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – >8 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – 2.6 MPN/100mL $JICA_{S2}$ – <1.1 MPN/100mL $SWAMP_S$ – <1.1 MPN/100mL $PICO_{S1}$ – 2.6 MPN/100mL $PICO_{S2}$ – <1.1 MPN/100mL	<1.1 MPN/100mL
		E. coli	2_S – >8 MPN/100 mL 4_S – <1.1 MPN/100 mL 14_S – >8 MPN/100mL $Lubas_S$ – >8 MPN/100mL A_S – >8 MPN/100 mL $PPSS_S$ – >8 MPN/100mL $JICA_{S1}$ – 2.6 MPN/100mL $PICO_{S1}$ – <1.1 MPN/100mL	<1.1 MPN/100mL

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MIC-1699 to 1715 and MIC-1733 to 1740	**17 Domestic water samples from source points placed in sterilized reagent bottle and with written label, 2_S, 3_S, 4_S, 5_S, 6_S, 8_S, 9_S, 12_S, 14_S, $Lubas_S$, A_S, $PPSS_S$, $JICA_{S1}$, $JICA_{S2}$, $SWAMP_S$, $PICO_{S1}$, and $PICO_{S2}$.**	**Heterotrophic Plate Count**	**2_S – 237 CFU/mL 3_S – <1* CFU/mL 4_S – 13* CFU/mL 5_S – <1* CFU/mL 6_S – <1* CFU/mL 8_S – 50 CFU/mL 9_S – <1* CFU/mL 12_S – <1* CFU/mL 14_S – 1,565 CFU/mL $Lubas_S$– 59 CFU/mL A_S – 22* CFU/mL $PPSS_S$ – 1,085 CFU/mL $JICA_{S1}$ –134 CFU/mL $JICA_{S2}$ – <1* CFU/mL $SWAMP_S$– 1,155 CFU/mL $PICO_{S1}$– 12* CFU/100mL $PICO_{S2}$– 87 CFU/100mL**	**<500 CFU/mL**

METHODOLOGY:

Total Coliform Count / *Escherichia coli*

Multiple Tube Fermentation Technique-Most Probable Number (MPN). Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215B; 9221A, B and C; 9223A and B (Modified) and in accordance with Merck Microbiological Manual, 12th Edition.

Heterotrophic Plate Count.

Pour Plate - Colony Forming Units (CFU) per ml. Following Standard Methods for the Examination of Water and Waste Water, 22nd Edition 2012, Microbiological Examination 9000: 9215A and B.

REMARKS: **Domestic water samples from 2_S, 14_S, $Lubas_S$, A_S, $PPSS_S$ and $JICA_{S1}$ are POSITIVE for *E. coli.***

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