



FORM I - STANDARD FORMAT FOR MICROBIOLOGICAL TEST RESULTS

(Instruction: Fill up the yellow-colored cells)

LIANGA WATER DISTRICT
Province: Surigao del Sur
SUMMARY REPORT ON MICROBIOLOGICAL TEST
MONTH OF NOVEMBER 20 20

1. Population actually served by utility:

(No. of service connections x ave. no. of persons per service connection (5 persons per household)) 18,170

No. of service connections 3,634

2. Required minimum number of samples based on the table below:

2.a For Total Coliform & Thermotolerant Coliform/E.Coli 6 samples
2.b For Heterotrophic Plate Count 6 samples

Population Served	Minimum Frequency of Sampling for Total Coliform and Thermotolerant Coliform/E. coli	Minimum Frequency of Sampling for Heterotrophic Plate Count (HPC)	Point of Compliance
Less than 5,000	2 samples monthly	2 samples monthly	Consumers' taps
5,000 - 100,000	1 sample per 5,000 population + 2 additional samples monthly	1 sample per 5,000 population + 2 additional samples monthly	Consumers' taps
More than 100,000	1 sample per 10,000 population + 12 additional samples monthly	Required at least 40% of the sampling points	Consumers' taps
<i>Note: Collection of samples should be spread out within a month</i>			

3. Sample Requirement

a. No. of samples examined. 6
b. Percent (%) to the minimum required. 100.0%
c. Met Standards? ☒ Yes ☐ No
("Yes" if b is 100% or more. "No" if b is less than 100%.)

4. Parameter/Method

A. Total Coliform

4.1 Multiple Tube Fermentation Technique (MTFT)

a. Number of samples showing presence of coliform group. 0
b. Percent (%) to samples examined (4.1.a/3.a x 100). 0.0%
c. Met Standards? ☒ Yes ☐ No
("Yes" if b is 5% or less. "No" if b is more than 5%.)

4.2 Membrane Filter Technique (MFT)

a. Number of samples showing presence of coliform colonies. 0
b. Percent (%) to the number of samples analyzed. 0.0%
(4.2.a/3.a x 100)
c. Met Standards? ☒ Yes ☐ No
("Yes" if b is 5% or less. "No" if b is more than 5%.)

4.3 Enzyme Substrate Coliform Test (EST)

- a . Number of samples showing presence of coliform. 0
- b . Percent (%) to total number of samples examined. 0.0%
(4.3.a/3.a x 100)
- c . Met Standards? ☐ Yes ☒ No 0
("Yes" if b is 5% or less. "No" if b is more than 5%.)

B. Thermotolerant Coliform/ E. coli

- a . Number of samples showing presence of thermotolerant coliform/E. coli organisms.
MTFT: MPN/100 ml value of < 1.1
EST: Absent or < 1 MPN/100 ml
MFT: < 1 thermotolerant coliform colonies/100ml. 0
- b . Percent (%) to total number of samples analyzed 0.0%
- c . Met Standards? ☒ Yes ☐ No 0
("Yes" if a is zero. "No" if a is not equal to zero.)

C. Heterotrophic Plate Count (HPC)

- a . Number of HPC tests conducted. 6
Percent (%) to the minimum required. 100.0%
Met Standards (no. of samples)? ☒ Yes ☐ No
- b . No. of samples showing HPC value < 500 CFU/ml. 6
- c . Percent (%) to number of tests conducted (b/a x 100). 100.0%
- d . Met Standards? ☒ Yes ☐ No 0
("Yes" if c is 100%. "No" if c is not 100%.)

5. DISINFECTION RESIDUAL

5.A Using Free Residual Chlorine

- a . No. of days without a test conducted 0
- b . No. of samples with residual chlorine <0.3 or >1.5 mg/L 0
- c . Met Standards? ☒ Yes ☐ No 0
("Yes" if a and b are both zero. "No" if either a or b, or both a and b are not zero.)

5.B Using Chlorine Dioxide

- a . No. of days without a test conducted 0
- b . No. of samples with residual chlorine dioxide <0.2 or >0.4 mg/L 0
- c . Met Standards? ☒ Yes ☐ No 0
("Yes" if a and b are both zero. "No" if either a or b, or both a and b are not zero.)

NOTE: FOR MICROBIOLOGICAL RESULTS:
If number of samples is 20 or less, please attach laboratory test results with this summary form.
number of samples is more than 20, only the summary form is required even without accompanying laboratory test results.

SUBMITTED BY:



WILFREDO G. SANCHEZ

General Manager



Beyond Providing Water

Republic of the Philippines
SAN FRANCISCO WATER DISTRICT
San Francisco, Agusan del Sur

SAN FRANCISCO WATER DISTRICT LABORATORY
(DOH Accreditation No.: 16-002-16-LW-1)

WATER BACTERIOLOGICAL EXAMINATION

CLIENT'S INFORMATION

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

Date: November 19, 2020

SAMPLE'S INFORMATION

Date and time of collection : November 10, 2020 - 7:27am
Location of sampling point : Cruza, Zone-2, Purok -2
Poblacion, Lianga
Sample source : Developed spring
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

LABORATORY'S INFORMATION

Sample No. : B20-11-3097
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

I hereby certify that the above data/information are true and correct.

Prepared & Certified Correct

CYD OLIVETE P. COMPLETO
(Cert. No. WMLA 12-0223)
U/CSO-A/QWPS

Approved:

MAMRY B. PAYLANGCO
Division Manager C

Noted:

ELMER T. LUZON
General Manager C

Released by: JEAN V. SANCHEZ
Name and Signature

Date: Nov 19, 2020

Received by: _____
Name and Signature

Date: _____



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CLIENT'S INFORMATION

Date: November 19, 2020

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

SAMPLE'S INFORMATION

Date and time of collection : November 10, 2020 - 7:05am
Location of sampling point : Cajate, Zone-9 Purok-7
Brgy. Wakat
Sample source : Developed spring
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

LABORATORY'S INFORMATION

Sample No. : B20-11-3096
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

I hereby certify that the above data/information are true and correct.

Prepared & Certified Correct

Approved:

Noted:

CYD OLIVETTE P. COMPLETO

(Cert. No. WMLA 12-0223)

U/CSO-A/QWPS

MAMRY B. PAYLANGCO

Division Manager C

ELMER T. LUZON

General Manager C

Released by:

Name and Signature

Date:

Received by:

Name and Signature

Date:



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WATER BACTERIOLOGICAL EXAMINATION

CLIENT'S INFORMATION

Date: November 19, 2020

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

SAMPLE'S INFORMATION

Date and time of collection : November 10, 2020 - 6:40am
Location of sampling point : Campos, Zone-3 Purok-1
Brgy. Banahao
Sample source : Developed spring
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

LABORATORY'S INFORMATION

Sample No. : B20-11-3095
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed ✓
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed ✓
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed ✓

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

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MAMRY B. PAYLANGCO

Division Manager C

ELMER T. LUZON

General Manager C

Released by: LEAN V. BIASIG

Name and Signature

Received by: _____

Name and Signature

Date: 11-20-2020

Date: _____



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WATER BACTERIOLOGICAL EXAMINATION

CLIENT'S INFORMATION

Date: November 19, 2020

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

SAMPLE'S INFORMATION

LABORATORY'S INFORMATION

Date and time of collection : November 10, 2020 - 6:19am
Location of sampling point : Osorio, Zone-6, Purok-7
Causeway, St. Christine
Sample source : Surface water
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

Sample No. : B20-11-3094
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed \
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed \
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed \

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

I hereby certify that the above data/information are true and correct.

Prepared & Certified Correct

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Noted:

CYD OLIVETTE P. COMPLETO

(Cert. No. WMLA 12-0223)

U/CSO-A/CWPS

MAMRY S. PAYLANGCO

Division Manager C

ELMER T. LUZON

General Manager C

Released by:

Name and Signature

Date:

Received by:

Name and Signature

Date:



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WATER BACTERIOLOGICAL EXAMINATION

CLIENT'S INFORMATION

Date: November 19, 2020

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

SAMPLE'S INFORMATION

Date and time of collection : November 10, 2020 - 6:08am
Location of sampling point : Arreza, Zone-5 P-5 National Highway, Diatagon
Sample source : Surface water
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

LABORATORY'S INFORMATION

Sample No. : B20-11-3093
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

I hereby certify that the above data/information are true and correct.

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Date: _____

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Name and Signature

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CLIENT'S INFORMATION

Date: November 19, 2020

Requested by : Lianga Water District
Address of requesting party : Annex-A Market Mall, Lianga, Surigao del Sur
Contact Person & No. : Wilfredo G. Sanchez - 09299757591

SAMPLE'S INFORMATION

Date and time of collection : November 10, 2020 - 5:55am
Location of sampling point : Flores, Zone-4, Purok-4
Public Market, Diatagon
Sample source : Surface water
Sampling point : Faucet
Treatment process : None
Disinfection process : Chlorine
Analyte/Sample Identity : Product

LABORATORY'S INFORMATION

Sample No. : B20-11-3092
Physical characteristics : Clear
Date examined : November 10, 2020
Date paid / O.R. no. : November 10, 2020 - 576619

LABORATORY RESULTS

PARAMETERS	RESULT OF ANALYSIS	PNSDW (Phil. Nat'l Standards for Drinking Water)	REMARKS
HPC (Heterothropic Plate Count)	<1	less than 500 cfu/mL	Passed ✓
Total Coliform	less than 1.1	less than 1.1 (MPN/100 mL)	Passed ✓
Fecal Coliform / Thermotolerant	less than 1.1	less than 1.1 (MPN/100 mL)	Passed ✓

Method of Determination: Multiple Tube Fermentation Technique (MTFT) for Coliform.

: Pour plate method for HPC

Remarks: Result of examination relate only to sample as submitted and tested.

Water sample is negative of both total and fecal coliform organisms.

HPC is within the standard limit set by PNSDW.

I hereby certify that the above data/information are true and correct.

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