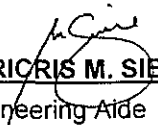


Republic of the Philippines
LIANGA WATER DISTRICT
 Annex-A, Market Mall, Lianga, Surigao del Sur

MONTHLY BACTERIOLOGICAL EXAMINATION REPORT
CY 2016

Month	Number of Samples	Total Coliforms	Fecal Coliforms	Standard Plate Count	Remarks
January	4	0 cfu / ml	0 cfu / ml	(3) < 1.0 & (1) 5 cfu / ml	Passed
February	4	0 cfu / ml	0 cfu / ml	(2) < 1.0 cfu / ml 3 cfu / ml 4 cfu / ml	Passed
March	4	0 cfu / ml	0 cfu / ml	< 1.0 cfu / ml 5 cfu / ml 8 cfu / ml 10 cfu / ml	Passed
April	4	0 cfu / ml	0 cfu / ml	30 cfu / ml 18 cfu / ml 14 cfu / ml 10 cfu / ml	Passed
May	4	0 cfu / ml	0 cfu / ml	(4) < 1.0 cfu / ml	Passed
June	4	0 cfu / ml	0 cfu / ml	(4) < 1.0 cfu / ml	Passed
July	4	0 cfu / ml	0 cfu / ml	(3) < 1.0 & (1) 3 cfu / ml	Passed
August	4	0 cfu / ml	0 cfu / ml	(3) < 1.0 & (1) 8 cfu / ml	Passed
September	4	negative	negative	(2) < 1.0 cfu / ml 5 cfu / ml 2 cfu / ml	Passed
October	4	0 cfu / ml	0 cfu / ml	(2) < 1.0 cfu / ml 14 cfu / ml 4 cfu / ml	Passed
November	4	0 cfu / ml	0 cfu / ml	(2) 1 cfu / ml 48 cfu / ml 6 cfu / ml	Passed
December	4	0 cfu / ml	0 cfu / ml	(2) 3 cfu / ml 13 cfu / ml 24 cfu / ml	Passed

Prepared By:

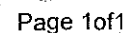
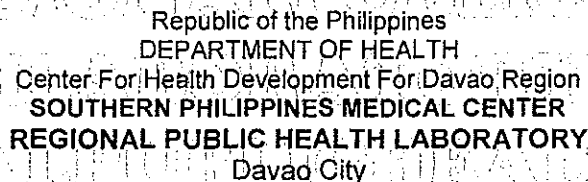

MARICRIS M. SIERRA
 Engineering Aide

Checked By:


ROMEO S. RANARA
 Water Utilities Development Officer-B

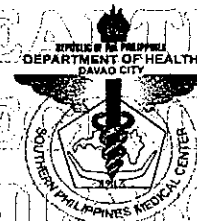
Approved By:

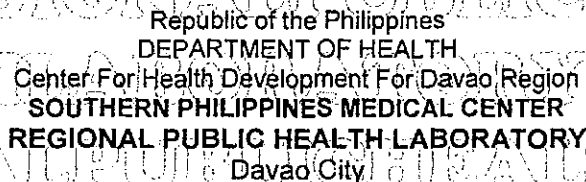

WILFREDO G. SANCHEZ
 General Manager D











Submitted by:
Name LIANGA WATER DISTRICT
Address RIZAL STREET, LIANGA,
SURIGAO DEL SUR

Source (Raw Water):	Develop Spring	Treated water:	☒ Yes	☐ No
Treatment Done:	Chlorination			
Description:	Clear	Drinking Water:	☒ Yes	☐ No
Sampling Point:	Sample 1: Faucet at <i>Rico Guerta-a's residence</i> located at Zone – 4 Public Market, Diatagon, Surigao del Sur			

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis	Remarks
--------------------	---------

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	<1.0 cfu/ml	

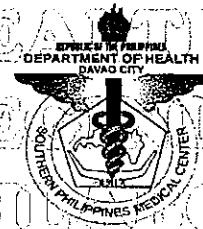
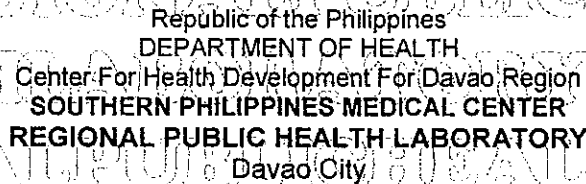
	Refilling Station	Public Water Supplies
MPN/100ml: Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml: Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

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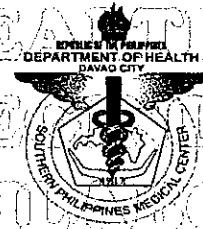
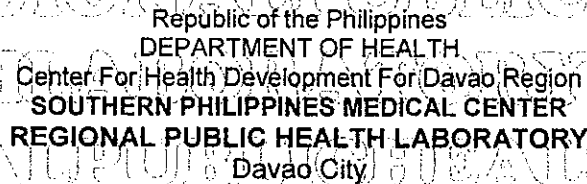
Oscar P. Graedo, M.D. FPSP,APCP

Virginia S. Te, RMT

Analyst



Page 1 of 1



Name	LIANGA WATER DISTRICT
Address	RIZAL STREET, LIANGA, SURIGAO DEL SUR

Source: (Raw Water) Develop Spring Treated water ☒ Yes ☐ No
Treatment Done: Chlorination
Description: Clear Drinking Water ☒ Yes ☐ No
Sampling Point: Sample 1: Faucet at Denia Palaban's residence located at Zone - 3,
Lawis Banahao, Lianga, Surigao del Sur

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis

Remarks

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	10 cfu/ml	

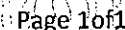
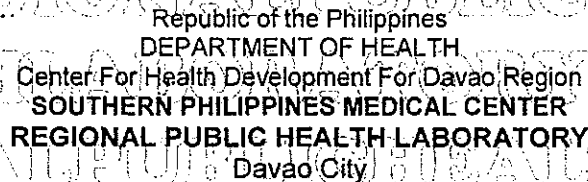
	Refilling Station	Public Water Supplies
MPN/100ml. Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml. Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

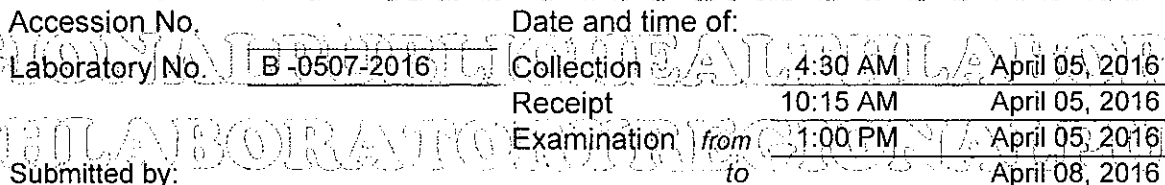
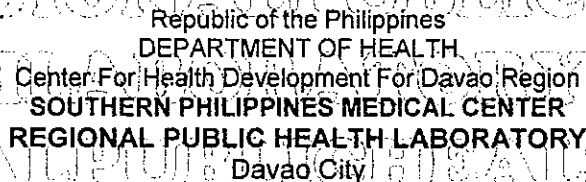
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Oscar P. Groggeda, M.D., FPSP, APCP
Pathologist

Virginia T. Dilan, RMT
Analyst





Name	LIANGA WATER DISTRICT
Address	RIZAL STREET, LIANGA, SURIGAO DEL SUR

Source (Raw Water): Develop Spring Treated water: ☒ Yes ☐ No
Treatment Done: Chlorination

Description: Clear Drinking Water ☒ Yes ☐ No
Sampling Point: Sample 3: Faucet at Janith Ayuban's residence located at Zone 4, Public Market, Diatagon, Lianga, Surigao del Sur

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis

Remarks

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	18 cfu/ml	

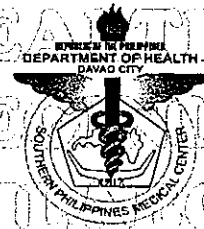
	Refilling Station	Public Water Supplies
MPN/100ml: Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml: Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

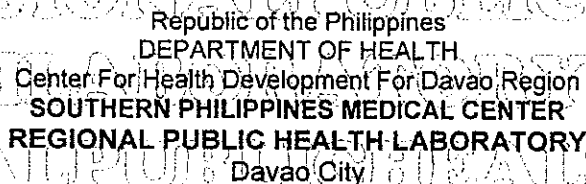
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[illegible]


Oskar P. Grageda, M.D., FPSP, APCP
Pathologist

Virginia T. Dilan, RMT
Analyst





Name LIANGA WATER DISTRICT
RIZAL STREET, LIANGA,
SURIGAO DEL SUR

Source (Raw Water):	Develop Spring	Treated water:	☒ Yes	☐ No
Treatment Done:	Chlorination			
Description:	Clear	Drinking Water:	☒ Yes	☐ No
Sampling Point:	Sample 3: Faucet at Alicia Tagyamón's residence located at Zone 5 DYLM Diatagon, Lianga, Surigao del Sur			

Remarks: PURCHASE PAID BY AIRMAIL

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis	Remarks
--------------------	---------

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	<1.0 cfu/ml	

	Refilling Station	Public Water Supplies
MPN/100ml: Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml: Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

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Oscar P. Grageda, M.D., FPSP, APCP
Pathologist

Virginia T. Dilan
Virginia T. Dilan, RMT
Analyst



Accession No.	Date and time of:		
Laboratory No.	B-0681-2016	Collection	3:00 AM May 03, 2016
		Receipt	9:05 AM May 03, 2016
		Examination	from 1:00 PM May 03, 2016
Submitted by:		to	May 06, 2016

Name LIANGA WATER DISTRICT
RIZAL STREET, LIANGA,
SURIGAO DEL SUR

Source (Raw Water): Develop Spring Treated water ☒ Yes ☐ No
Treatment Done: Chlorination

Description: Clear Drinking Water ☒ Yes ☐ No
Sampling Point: Sample 1: Faucet at Larison Intano's residence located at Zone 3
Purok 5, Lianga, Surigao del Sur

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis		Remarks
Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	<1.0 cfu/ml	

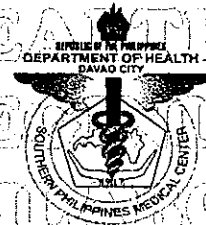
	Refilling Station	Public Water Supplies
MPN/100ml: Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml: Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

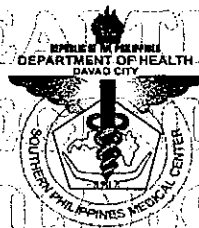
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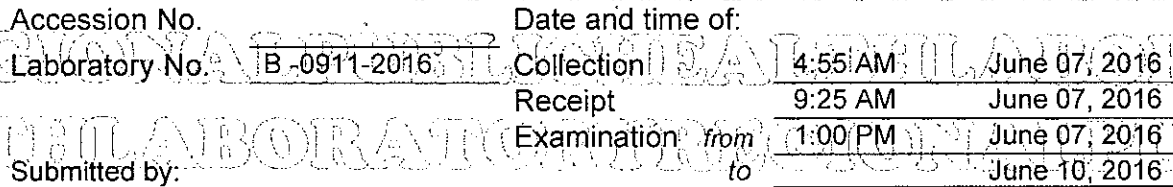
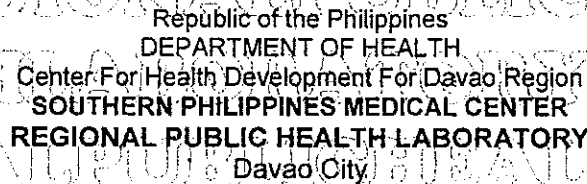
[illegible]

Oscar R. Grageda, M.D., FPSP, APCP
Pathologist

Virginia T. Dilan, RMT
Analyst







Source (Raw Water): Develop Spring Treated water: ☒ Yes ☐ No
Treatment Done: Chlorination

Description: Clear Drinking Water: ☒ Yes ☐ No
Sampling Point: Sample 2: Faucet at Marilyn Banudan-a's residence located at Zone 7, Purok 3, Brgy. Anibongan, Lianga, Surigao del Sur

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	<1.0 cfu/ml	

	Refilling Station	Public Water Supplies
MPN/100ml. Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml. Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

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[illegible]

Pathologist

Analyst



Accession No.	Date and time of		
Laboratory No. <u>CH - 213 -2016</u>	Collection	4:45 AM	June 07, 2016
	Receipt	9:25 AM	June 07, 2016
	Examination from	1:00 PM	June 07, 2016
Submitted by:	to		June 10, 2016
Name	LIANGA WATER DISTRICT		
Address	RIZAL ST. LIANGA		
	SURIGAO DEL SUR		

Source (Raw Water): Develop Spring Treated water: ☐ Yes ☒ No
Treatment Done: None

Description: 1 Liter Clear Drinking Water ☒ Yes ☐ No

Sampling Point: Sample 1: Spring Source – Raw Water taken from the spring located at Simulao, Datagon, Lianga, Surigao del Sur.

Remarks: All parameters are within normal limits.

Laboratory Report on Aesthetic and Inorganic Constituents

	<u>Value</u>	<u>Normal Limits</u>	<u>Method</u>
pH	7.25	6.5 – 8.5	Electrometric
Apparent Color	1.0	10 units	Visual Comparison
Odor	Unobjectionable	Unobjectionable	Qualitative
Turbidity	Clear	--	Qualitative
Alkalinity	139	--	Titrimetric
Acidity	3.0	--	Titrimetric
Total Chloride	Not Detected	Up to 250 mg/L	Argentometric
Total Hardness as CaCO ₃	133	Up to 300 mg/L	EDTA Titrimetric
Calcium as CaCO ₃	33	Up to 75 mg/L	EDTA Titrimetric
Magnesium	12	Up to 50 mg/L	By Calculation
Total Iron	Not Detected	Up to 1.0 mg/L	Phenanthroline
Fluoride	0.07	Up to 1.0 mg/L	SPADNS
Sulfate	84	Up to 250 mg/L	Turbidimetric

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[illegible]

Oscar P. Grageda, M.D., FPSP, APCP
Pathologist

Maria Erlinda G. Dayoan
Analyst



Accession No.	Date and time of:		
Laboratory No.	B-1109-2016	Collection	5:00 AM July 05, 2016
		Receipt	9:41 AM July 05, 2016
		Examination	from 1:00 AM July 05, 2016
Submitted by:		to	July 08, 2016

Name LIANGA WATER DISTRICT
Address RIZAL STREET, LIANGA,
SURIGAO DEL SUR

Source: <i>(Raw Water)</i>	Develop Spring	Treated water	☒ Yes	☐ No
Treatment Done:	Chlorination			
Description:	Clear	Drinking Water	☒ Yes	☐ No
Sampling Point:	Sample 1: Faucet of <i>Diatagon Catholic High School</i> located at Zone 1, Brgy. Diatagon, Lianga, Surigao del Sur			

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Result of Analysis

Remarks

Total Coliforms	0 cfu/ml	PASSED
Fecal Coliforms	0 cfu/ml	
Standard Plate Count	<1.0 cfu/ml	

Refilling Station

Public Water Supplies

MPN/100ml, Total Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
MPN/100ml, Fecal Coliforms	Less than 1.1 or 0	Less than 1.1 or 0
Standard Plate Count	Less than 500 cfu/ml	Less than 500 cfu/ml

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[illegible]

Oscar P. Grageda, M.D., FPSP, APCP

Pathologist

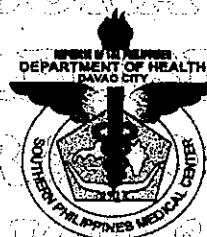
Virginia T. Dilan, RMT

Analyst



Less than 500 cfu/ml







Accession No.	Date and time of:	
Laboratory No.	B -1530-2016	Collection 04:30 AM September 06, 2016
		Receipt 10:33 AM September 06, 2016
	Examination from	1:00 PM September 06, 2016
Submitted by:	to	September 09, 2016
Name	LIANGA WATER DISTRICT	
Address	LIANGA WATER DISTRICT	
	RIZAL STREET, LIANGA	
	SURIGAO DEL SUR	
Source (Raw Water)	Develop Spring	Treated water ☒ Yes ☐ No
Treatment Done:	Chlorination	
Description:	Clear	Drinking Water ☒ Yes ☐ No
Sampling Point:	Sample 4: Faucet at Rolando Dinurog Residence, Zone-6 Christine Lianga, Surigao Del Sur of LIANGA WATER DISTRICT located at Rizal Street Lianga, Surigao Del Sur	

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Method - Colilert - 18

Result of Analysis

Remarks

Total Coliforms

Negative

PASSED

Fecal Coliforms

Negative

Standard Plate Count

<1.0 cfu/ml

Method - Colilert - 18

Refilling Station

Public Water Supplies

Total Coliforms

Negative(No Yellow Color)

Negative

Fecal Coliforms

Negative (Yellow color w/o Fluorescence)

Negative

Standard Plate Count

Less than 500 cfu/ml

Less than 500 cfu/ml

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Oscar P. Grageda, M.D., FPSP, APCP

Pathologist

Maria Erlinda G. Dayoan

Analyst:



Accession No.		Date and time of:	
Laboratory No.	B -1529-2016	Collection	04:25 AM September 06, 2016.
		Receipt	10:33 AM September 06, 2016
		Examination from	1:00 PM September 06, 2016
Submitted by:		to	September 09, 2016

Name **LIANGA WATER DISTRICT**

Address LIANGA WATER DISTRICT

RIZAL STREET, LIANGA

SURIGAO DEL SUR

Source (Raw Water)	Develop Spring	Treated water	☒ Yes	☐ No
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Treatment Done: Chlorination

Description:	Clear	Drinking Water	☒	Yes	☐	No
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Sampling Point: Sample 3: Faucet at Inocencio Sabandal Residence Zone- 5 DYLM

Lianga, Surigao Del Sur of *LIANGA WATER DISTRICT* located at

Rizal Street Lianga Surigao Del Sur

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Method - Colilert - 18

Result of Analysis

Remarks

Total Coliforms

Negative

PASSED

Fecal Coliforms

Negative

Standard Plate Count

≤1.0 cfu/ml

Method - Colilert - 18

Refilling Station

Public Water Supplies

Total Coliforms

Negative(No Yellow Color)

Negative

Fecal Coliforms

Negative (Yellow color w/o Fluorescence)

~~Negative~~
Negative

Standard Plate Count

Less than 500 cfu/ml

Less than 500 cfu/ml

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[illegible]

Oscar P. Grageda, M.D., FPSP, APCP

Pathologist

Maria Erlinda G. Davaon

Analyst



Accession No.		Date and time of:	
Laboratory No.	B -1531-2016	Collection	04:15 AM September 06, 2016
		Receipt	10:33 AM September 06, 2016
		Examination from	1:00 PM September 06, 2016
Submitted by:		to	September 09, 2016

Name	LIANGA WATER DISTRICT
Address	LIANGA WATER DISTRICT RIZAL STREET, LIANGA SURIGAO DEL SUR

Source <i>(Raw Water)</i>	Develop Spring	Treated water	☒ Yes	☐ No
Treatment Done:	Chlorination			
Description:	Clear	Drinking Water	☒ Yes	☐ No
Sampling Point:	Sample 2: Faucet at Juan Oropa Residence, Zone-2 P-11, Cemetery Lianga, Surigao Del Sur of LIANGA WATER DISTRICT located at Rizal Street Lianga Surigao Del Sur			

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Method - Colilert - 18

Result of Analysis

Remarks

Total Coliforms

Negative

PASSED

Fecal Coliforms

Negative

Standard Plate Count

5 cfu/ml

Method - Colilert - 18

Refilling Station

Public Water Supplies

Total Coliforms

Negative(No Yellow Color)

Negative

Fecal Coliforms

Negative (Yellow color w/o Fluorescence)

Negative

Standard Plate Count

Less than 500 cfu/ml

Less than 500 cfu/ml

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[illegible]

Oscar P. Grageda, M.D., FPSP, APCP

Pathologist

Maria Erlinda G. Dayoan

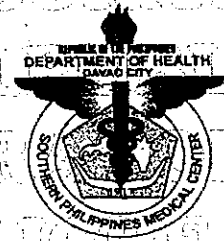
Analyst



Maria Erlinda G. Dayoan
Analyst



Pathologist



Date and time of:

4:30 AM December 06, 2016

8:40 AM December 06, 2016

Examination from 1:00 PM December 06, 2016

to December 09, 2016

Submitted by:

Address ANNEX-A MARKET MALL, LIANGA,
SURIGAO DEL SUR

Treated water: ☒ Yes

☐ No

Chlorination

Drinking Water : ☒ Yes

☐ No

Sampling Point: Sample 1: Faucet at the Provincial Jail Lianga located at Zone 1, Phase 1, Lianga Surigao Del Sur

Remarks:

BACTERIOLOGICAL EXAMINATION OF WATER

Method- MTFT

Result of Analysis

Remarks

0 cfu/ml

PASSED

0 cfu/ml

24 cfu/ml

Refilling Station

Public Water Supplies

Less than 1.1 or 0

Less than 1.1 or 0

Less than 1.1 or 0

Less than 1:1 or 0

Less than 500 cfu/ml

Less than 500 cfu/ml

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[illegible]

Analyst:

For: *Xiballe*
Learrie Faye B. Juaman

Medical Technologist II

Certified correct

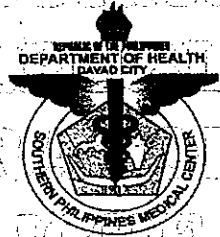
Maria Erlinda G. Dayoan

Chemist III

Noted by:

Marlon M. Maramion, M.D., FPSP

Pathologist



Accession No.	CH-435-2016		Date and time of:	4:15 AM December 06, 2016	
Laboratory No.	CH-435-2016		Collection	4:15 AM December 06, 2016	
			Receipt	8:40 AM December 06, 2016	
			Examination - from	1:00 PM December 06, 2016	
Submitted by:	to			December 09, 2016	
Name	LIANGA WATER DISTRICT				
Address	ANNEX-A MARKET MALL, LIANGA, SURIGAO DEL SUR				
Source (Raw Water)	Develop Spring		Treated water	☐ Yes	☒ No
Treatment Done:	None				
Description:	Clear		Drinking Water	☒ Yes	☐ No
Sampling Point:	Sample 1:Source, Intake Camangahan,, Ban-as, Lianga Surigao Del Sur of LIANGA WATER DISTRICT				
Remarks:	All parameters are within normal limits.				

Laboratory Report on Aesthetic and Inorganic Constituents

	<u>Value</u>	<u>Normal Limits</u>	<u>Method</u>
pH	7.66	6.5 – 8.5	Electrometric
Apparent Color	1	10 units	Visual Comparison
Odor	Unobjectionable	Unobjectionable	Qualitative
Turbidity	Clear	–	Qualitative
Alkalinity	201	--	Titrimetric
Acidity	3	--	Titrimetric
Total Chloride	Not Detected	Up to 250 mg/L	Argentometric
Total Hardness as CaCO ₃	209	Up to 300 mg/L	EDTA Titrimetric
Calcium as CaCO ₃	74	Up to 75 mg/L	EDTA Titrimetric
Magnesium	6	Up to 50 mg/L	By Calculation
Total Iron	0.08	Up to 1.0 mg/L	Phenanthroline
Fluoride	0.04	Up to 1.0 mg/L	SPADNS
Sulfate	63	Up to 250 mg/L	Turbidimetric

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[illegible]

Analyst:

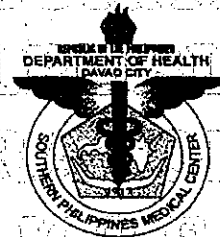
Ronna Mae V. Aguilon
Chemist II

Certified correct:

Maria Erlinda G. Dayoan
Chemist III

Noted by:

Marlon M. Maramion, M.D., FPSP
Pathologist



Marlon M. Maramba, M.D., FPSP
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