



## AMEER DIAGNOSTIC LABORATORY

A DOH ACCREDITED WATER TESTING LABORATORY

DOH Accreditation No: 03-004-16-LW-2 & 03-0028-16-PFSS-R

A. Mabini St., Mojon, Malolos City (Beside old SSS Office), Bulacan

PLDT NO.: 8934938; Globeline: 305 0430; Cell. No.: 0925 525 5504; 0925052505505

E-mail : ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **3:40 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **January 3, 2017**

Lab. No. : **ADL - 16 -452**

Sample I.D. : **CAINGIN 1 PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.22                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 1                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.76                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 23                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 328                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 9.43                 | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | ND                   | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.061                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | <0.03                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

" Bureau of Food & Drugs Amendment of A.O. No. 39 s. 1996 (Standard of Quality and Requirement for the Processing and Labeling of Bottled Drinking Water)

Analyzed and Checked By:

*M. Tolentino*

Maryanne S. Tolentino

Analyst

*R. Camitan*

Razelle Angela B. Camitan

Chemist - PRC License No.: 0011935

Approved By:

*Amira de Leon Arroyo*

Amira de Leon Arroyo, RMT

Owner / Analyst - PRC License No.: 13881

*Susana P. Quiaoit*

Susana P. Quiaoit, MD, FPSP

Head of the Laboratory - PRC License No.: 64242

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E-mail : ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **5:10 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **February 3, 2016**

Lab. No. : **ADL - 16 -457**

Sample I.D. : **MAGUINAO GULOD  
PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.39                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 1                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.03                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 6                    | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 295                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | ND                   | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | ND                   | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.187                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.064                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

" Bureau of Food & Drugs Amendment of A.O. No. 39 s. 1996 (Standard of Quality and Requirement for the Processing and Labeling of Bottled Drinking Water)

Analyzed and Checked By:

*M. Tolentino*

**Maryanne S. Tolentino**

Analyst

*R. Camitan*

**Razelle Angela B. Camitan**

Chemist - PRC License No.: 0011935

Approved By:

*A. de Leon*

**Amira de Leon - Arroyo, RMT**

Owner / Analyst - PRC License No.: 13881

*S. Quiaito*

**Susana P. Quiaito, MD, FPSP**

Head of the Laboratory - PRC License No.: 64242

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E-mail : ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : SAN RAFAEL WATER DISTRICT

Address : SAN RAFAEL, BULACAN

Attention :

Sample Taken By : REGINO GONZALES

Date of Sampling : December 15, 2016

Date Received : December 15, 2016

Time of Sampling : 5:30 AM

Place of Sampling : SAN RAFAEL, BULACAN

Source of Sample : DEEP WELL

Date Released : January 3, 2017

Lab. No. : ADL - 16 -458

Sample I.D. : GARDEN BREEZE  
PUMPING STATION

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.85                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | <1                   | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.49                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 71                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 359                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 1.90                 | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 2.85                 | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.216                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.085                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition  
GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

<sup>#</sup> Bureau of Food & Drugs Amendment of A.O. No. 39 s. 1996 (Standard of Quality and Requirement for the Processing and Labeling of Bottled Drinking Water)

Analyzed and Checked By:

*Maryanne S. Tolentino*

Maryanne S. Tolentino

Analyst

*Razelle Angela B. Camitan*

Razelle Angela B. Camitan

Chemist - PRC License No.: 0011935

Approved By:

*Amira de Leon Arroyo*

Amira de Leon Arroyo, RMT

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*Susana P. Quiaoit*

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E-mail: ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : SAN RAFAEL WATER DISTRICT  
Address : SAN RAFAEL, BULACAN  
Attention :  
Sample Taken By : REGINO GONZALES  
Date of Sampling : December 15, 2016  
Date Received : December 15, 2016  
Time of Sampling : 5:39 AM  
Place of Sampling : SAN RAFAEL, BULACAN  
Source of Sample : DEEP WELL

Date Released : January 3, 2017

Lab. No. : ADL - 16 -459

Sample I.D. : CRUZ NA DAAN  
PUMPING STATION

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.41                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 1                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.66                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 121                  | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 475                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 11.10                | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 0.37                 | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.205                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.075                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:


Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

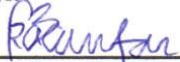
GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

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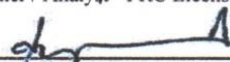
Analyzed and Checked By:

  
Maryanne S. Tolentino  
Analyst

  
Razelle Angela B. Camitan  
Chemist - PRC License No.: 0011935

Approved By:

  
Amira de Leon Arroyo, RMT  
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Susana P. Quiaoit, MD, FPSP  
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E-mail : ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **5:46 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **January 3, 2017**

Lab. No. : **ADL - 16 -460**

Sample I.D. : **MAASIM PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.18                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | <1                   | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.49                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 15                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 349                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 0.22                 | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 5.32                 | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.265                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.125                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

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E-mail: ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **6:00 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **January 3, 2017**

Lab. No. : **ADL - 16 -461**

Sample I.D. : **SAN AGUSTIN  
PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.24                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 5                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 6.89                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 26                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 390                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | ND                   | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 3.67                 | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.064                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.128                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

#### References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

\* Bureau of Food & Drugs Amendment of A.O. No. 39 s. 1996 (Standard of Quality and Requirement for the Processing and Labeling of Bottled Drinking Water)

#### Analyzed and Checked By:

*Maryanne S. Tolentino*

**Maryanne S. Tolentino**

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#### Approved By:

*Amira de Leon Arroyo, RMT*

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## AMEER DIAGNOSTIC LABORATORY

A DOH ACCREDITED WATER TESTING LABORATORY

DOH Accreditation No: 03-004-16-LW-2 & 03-0028-16-PFSS-R

A. Mabini St., Mojon, Malolos City (Beside old SSS Office), Bulacan

PLDT NO.: 8934938; Globeline: 305 0430; Cell. No.: 0925 525 5504; 0925052505505

E-mail : ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **7:15 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **January 3, 2017**

Lab. No. : **ADL - 16 -463**

Sample I.D. : **MORONQUILLO  
PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 2.67                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 1                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 6.53                 | ----- | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 22                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 364                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 5.24                 | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 1.61                 | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.101                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.163                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

#### References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition  
GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

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#### Analyzed and Checked By:

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Analyst

*Razelle Angela B. Camitan*

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E-mail: ameerdtl\_lab@yahoo.com

### PHYSICO - CHEMICAL TEST RESULT FOR DRINKING WATER

Customer's Name : **SAN RAFAEL WATER DISTRICT**  
Address : **SAN RAFAEL, BULACAN**  
Attention :  
Sample Taken By : **REGINO GONZALES**  
Date of Sampling : **December 15, 2016**  
Date Received : **December 15, 2016**  
Time of Sampling : **7:35 AM**  
Place of Sampling : **SAN RAFAEL, BULACAN**  
Source of Sample : **DEEP WELL**

Date Released : **January 3, 2017**

Lab. No. : **ADL - 16 -464**

Sample I.D. : **POBLACION PUMPING STATION**

Sample Description :

**CLEAR, NO SEDIMENTS**

| Analyses                 | Method                        | Dates of Analyses | Results, as received | Units | PNSDW Limits*                         | Remarks |
|--------------------------|-------------------------------|-------------------|----------------------|-------|---------------------------------------|---------|
| <b>PHYSICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| Turbidity                | Turbidimeter (IDL = 0.02 NTU) | 12/15/2016        | 0.46                 | NTU   | 5                                     | Passed  |
| Color, True              | Visual Comparison             | 12/15/2016        | 1                    | PCU   | 5                                     | Passed  |
| <b>CHEMICAL ANALYSIS</b> |                               |                   |                      |       |                                       |         |
| pH, Laboratory @ 25°C    | Glass Electrode               | 12/15/2016        | 7.16                 | ----  | 6.5-8.5, 5-7 if purified <sup>#</sup> | Passed  |
| Chloride                 | Argentometry                  | 12/17/2016        | 44                   | mg/L  | 250                                   | Passed  |
| TDS                      | Gravimetry                    | 12/17/2016        | 419                  | mg/L  | 500, <10 if purified <sup>#</sup>     | Passed  |
| Nitrate                  | Colorimetry - Cd Reduction    | 12/22/2016        | 17.80                | mg/L  | 50                                    | Passed  |
| Sulfate                  | Turbidimetry                  | 12/19/2016        | 13.57                | mg/L  | 250                                   | Passed  |
| Benzene                  | Qualitative                   | 12/19/2016        | ABSENCE              | mg/L  | 0.01                                  | Passed  |
| <b>METAL ANALYSIS</b>    |                               |                   |                      |       |                                       |         |
| Iron                     | AAS (MDL = 0.06 mg/L)         | 12/31/2016        | 0.169                | mg/L  | 1.00                                  | Passed  |
| Manganese                | AAS (MDL = 0.03 mg/L)         | 12/31/2016        | 0.138                | mg/L  | 0.40                                  | Passed  |
| Arsenic                  | AAS (MDL = 0.005 mg/L)        | 12/31/2016        | <0.005               | mg/L  | 0.05                                  | Passed  |
| Cadmium                  | AAS (MDL = 0.003 mg/L)        | 12/31/2016        | <0.003               | mg/L  | 0.003                                 | Passed  |
| Lead                     | AAS (MDL = 0.0019 mg/L)       | 12/31/2016        | <0.0019              | mg/L  | 0.01                                  | Passed  |

ND = Not Detected

References:

Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 21<sup>st</sup> Edition

GBC Scientific Analytical Methods, Flame Atomic Absorption Spectrophotometry

\* Department of Health A.O. No. 12 s. 2007 (Philippine National Standards for Drinking Water 2007)

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