

**ScientiaTechCo.**

Research Testing Facility

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No. 10 Marcos High Way, Mayamot, Antipolo City
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WATER QUALITY TEST RESULTS

Reference No. 1802-0687-P

Client : **Morong Water District**
Sample Description : **Deep well**
Sampling Area/Location : **PS #2, T.Claudio St., Paglabas, San Pedro, Morong, Rizal**
Sample Collected by : **Morong Water District**
Date and Time of Sampling : **6-Feb-18**
Received : **6-Feb-18**

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.16@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	343	mg/L	600 / (10)*	Gravimetric
Chloride	22	mg/L	250	Titrimetric - Argentometric
Sulfate	146	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

- American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
- Dept. of Health Administrative Order 2017-0010, *Philippine National Standards for Drinking Water 2017 (PNSDW 2017)*

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Analyzed By:

Michelle E. Valdez
Laboratory Analyst

Certified By:
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Laboratory Head



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WATER QUALITY TEST RESULTS

Reference No. 1802-0695-P

Client : **Morong Water District**
Sample Description : Deep well
Sampling Area/Location : PS #12, Caingin, Morong, Rizal
Sample Collected by : Morong Water District
Date and Time of Sampling : 6-Feb-18
Received : 6-Feb-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.07@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	298	mg/L	600 / (10)*	Gravimetric
Chloride	1	mg/L	250	Titrimetric - Argentometric
Sulfate	130	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water).

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

1. American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No. 1802-0688-P

Client : **Morong Water District**
Sample Description : Deep well
Sampling Area/Location : PS #3, Sitio Gitna, San Guillermo, Morong, Rizal
Sample Collected by : Morong Water District
Date and Time of Sampling : 6-Feb-18
Received : 6-Feb-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.25@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	387	mg/L	600 / (10)*	Gravimetric
Chloride	16	mg/L	250	Titrimetric - Argentometric
Sulfate	136	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

1. American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No. 1802-0689-P

Client : **Morong Water District**
Sample Description : Deep well
Sampling Area/Location : PS #4, Calero, Morong, Rizal
Sample Collected by : Morong Water District
Date and Time of Sampling : 6-Feb-18
Received : 6-Feb-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.30@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	209	mg/L	600 / (10)*	Gravimetric
Chloride	1	mg/L	250	Titrimetric - Argentometric
Sulfate	98	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS [†]
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References

- American Public Health Association, American Water Works Association, and Water Environment Federation. Standard Methods for the Examination of Water and Waste Water. 22nd ed., 2012, Washington D.C.
- Dept. of Health Administrative Order 2017-0010, Philippine National Standards for Drinking Water 2017 (PNSDW 2017)

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WATER QUALITY TEST RESULTS

Reference No. 1802-0690-P

Client : **Morong Water District**
Sample Description : **Deep well**
Sampling Area/Location : **PS #7, Sitio Balante, San Jose, Morong, Rizal**
Sample Collected by : **Morong Water District**
Date and Time of Sampling : **6-Feb-18**
Received : **6-Feb-18**

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.11@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	356	mg/L	600 / (10)*	Gravimetric
Chloride	11	mg/L	250	Titrimetric - Argentometric
Sulfate	150	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric – Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone – AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water).

† No standard limit was set for Alkaline water.

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

1. American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No. 1802-0691-P

Client : **Morong Water District**
Sample Description : Deep well
Sampling Area/Location : PS #8, Sitio Libis, Bombongan, Morong, Rizal
Sample Collected by : Morong Water District
Date and Time of Sampling : 6-Feb-18
Received : 6-Feb-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.09@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	368	mg/L	600 / (10)*	Gravimetric
Chloride	6	mg/L	250	Titrimetric - Argentometric
Sulfate	150	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS [†]
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water).

† No standard limit was set for Alkaline water.

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

- American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
- Dept. of Health Administrative Order 2017-0010, *Philippine National Standards for Drinking Water 2017 (PNSDW) 2017*

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WATER QUALITY TEST RESULTS

Reference No. 1802-0692-P

Client : **Morong Water District**
Sample Description : **Deep well**
Sampling Area/Location : **PS #9, Sitio Labas, San Guillermo, Morong, Rizal**
Sample Collected by : **Morong Water District**
Date and Time of Sampling : **6-Feb-18**
Received : **6-Feb-18**

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.26@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	464	mg/L	600 / (10)*	Gravimetric
Chloride	77	mg/L	250	Titrimetric - Argentometric
Sulfate	185	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

- American Public Health Association, American Water Works Association, and Water Environment Federation. Standard Methods for the Examination of Water and Waste Water. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No. 1802-0693-P

Client : **Morong Water District**
Sample Description : Deep well
Sampling Area/Location : PS #10, Taghangin, Maybangaal, Morong, Rizal
Sample Collected by : Morong Water District
Date and Time of Sampling : 6-Feb-18
Received : 6-Feb-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.21@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	299	mg/L	600 / (10)*	Gravimetric
Chloride	1	mg/L	250	Titrimetric - Argentometric
Sulfate	131	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)
No standard limit was set for Alkaline water
ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

- American Public Health Association, American Water Works Association, and Water Environment Federation. Standard Methods for the Examination of Water and Waste Water. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No. 1802-0694-P

Client : **Morong Water District**
Sample Description : **Deep well**
Sampling Area/Location : **PS #11, Dela Paz, Morong, Rizal**
Sample Collected by : **Morong Water District**
Date and Time of Sampling : **6-Feb-18**
Received : **6-Feb-18**

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Color	2.0 TCU	TCU or ACU	5 TCU / 10 ACU	PTCo - Visual Comparison
Turbidity	1.0	NTU	5	Nephelometric
pH	7.11@ 25.0 °C	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Dissolved Solids	327	mg/L	600 / (10)*	Gravimetric
Chloride	1	mg/L	250	Titrimetric - Argentometric
Sulfate	157	mg/L	250	Gravimetric
Nitrate	ND (< 0.23)	mg/L	50	Colorimetric - Cd Reduction
Benzene	ND (< 0.001)	mg/L	0.01	Solvent Extraction - GC/MS †
Arsenic	ND (< 0.02)	mg/L	0.05	AAS
Cadmium	ND (< 0.003)	mg/L	0.003	AAS
Lead	ND (< 0.002)	mg/L	0.01	Dithizone - AAS
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

* PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water)

No standard limit was set for Alkaline water

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

1. American Public Health Association, American Water Works Association, and Water Environment Federation. Standard Methods for the Examination of Water and Waste Water. 22nd ed., 2012, Washington D.C.
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WATER QUALITY TEST RESULTS

Reference No.1808-1929-P 16

Client : **Morong Water District**
Sampling Area/Location : **Bumbongan Pumping Station**
Sample Description : **Deepwell**
Date and Time of :
Sampling : 3-Aug-18
Received : 3-Aug-18

PHYSICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Temperature	25.0	°C	-	Thermometric
Color	1.0 TCU	TCU or ACU	5 TCU / 10 ACU	PtCo - Visual Comparison
Odor	Unobjectionable	-	Unobjectionable	Sensory
Taste	Unobjectionable	-	Unobjectionable	Sensory
Turbidity	1.0	NTU	5	Nephelometric
pH	6.54	-	6.5 to 8.5 / (5.0 to 7.0)*	Electrometric

CHEMICAL ANALYSIS

Parameters	Results	Units	PNSDW 2017 limits	Test Method
Total Hardness	140	mg/L (CaCO ₃)	300	Titrimetric - EDTA
Total Dissolved Solids	401	mg/L	600 / (10)*	Gravimetric
Chloride	1	mg/L	250	Titrimetric - Argentometric
Sulfate	216	mg/L	250	Gravimetric / Turbidimetric
Hydrogen Sulfide	ND (< 0.01)	mg/L	0.05	Iodometric
Sodium	76	mg/L	200	Flame Photometric
Copper	ND (< 0.02)	mg/L	1.0	Colorimetric - Neocuproine
Aluminum	ND (< 0.02)	mg/L	0.2	Colorimetric - ECR
Zinc	ND (< 0.02)	mg/L	5	Colorimetric - Zincon
Iron	ND (< 0.05)	mg/L	1.0	Colorimetric - Phenanthroline
Manganese	ND (< 0.02)	mg/L	0.4	Colorimetric - Persulfate

*PNSDW limit for product water (Purified, Reverse Osmosis and Distilled water).

No standard limit was set for Alkaline water.

ND = Not detectable by the method used (less than test method's minimum detection limit)

REMARKS

All parameters measured are within Philippine National Standards for Drinking Water (PNSDW) 2017.

References:

1. American Public Health Association, American Water Works Association, and Water Environment Federation. *Standard Methods for the Examination of Water and Waste Water*. 22nd ed., 2012, Washington D.C.
2. Dept. of Health Administrative Order 2017-0010, *Philippine National Standards for Drinking Water 2017 (PNSDW 2017)*

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