



TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)**
Address: **3rd Floor, One Joroma Place, Congressional Avenue, Quezon City**
Contact Person: **Ms. Florisza I. Faustino**
COC Number: **2023-F0082**

Test Report No.: **TR-23F-182.1**
Date and Time Received: **07 Jun 2023 @5:20PM**
Sampled By: **ECHEM**
Report Date: **22 Jun 2023**

Sample ID:	S23-F07-029D	Sampling Date:	07 Jun 2023
Sample Description:	Deepwell 5	Sampling Time:	12:10 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.14	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	0.8	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.81	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.60 @29.7°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	241	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

Sample ID:	S23-F07-024D	Sampling Date:	07 Jun 2023
Sample Description:	Deepwell 7	Sampling Time:	11:12 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.06	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	1.0	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.97	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.90 @26.7°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	243	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM



Echem ENVIRONMENTAL TESTING LABORATORY CORPORATION

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Technical: 0917-507-8753 • 0917-164-2944

Sample ID:	S23-F07-034D	Sampling Date:	07 Jun 2023
Sample Description:	Deepwell 8	Sampling Time:	01:01 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.06	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	1.0	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.81	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.20 @30.8°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	340	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

Sample ID:	S23-F07-035D	Sampling Date:	07 Jun 2023
Sample Description:	Deepwell 9	Sampling Time:	01:11 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.10	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	0.8	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.81	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	8.10 @29.9°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	242	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

Sample ID:	S23-F07-037D	Sampling Date:	07 Jun 2023
Sample Description:	Deepwell 10	Sampling Time:	01:29 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.02	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	0.8	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.94	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.65 @28.7°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	244	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

**echem****ENVIRONMENTAL TESTING LABORATORY CORPORATION**

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Sample ID:	S23-F07-040D			Sampling Date:	07 Jun 2023	
Sample Description:	Deepwell 11			Sampling Time:	01:51 PM	
Sample Matrix:	Drinking Water			Sampling Location:	Anvaya Cove, Morong, Bataan	
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.005	mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	<0.010	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	1.0	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	<5 @pH 7.98	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.65 @30.3°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	243	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

Sample ID:	S23-F07-042D			Sampling Date:	07 Jun 2023	
Sample Description:	Deepwell 13			Sampling Time:	02:10 PM	
Sample Matrix:	Drinking Water			Sampling Location:	Anvaya Cove, Morong, Bataan	
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron		mg/L	1.0	Phenanthroline	13 Jun 2023	KTD
Manganese	0.10	mg/L	0.40	Persulfate	15 Jun 2023	KTD
Chlorine, Residual	1.0	mg/L	0.30-1.50	Colorimetric	07 Jun 2023	MGF
Color, Apparent	10 @pH 6.90	CU	10	Visual Comparison	08 Jun 2023	RRM
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	08 Jun 2023	MCD
Odor	No Objectional Odor	---	No Objectional Odor	Threshold Odor Test	07 Jun 2023	RRM
pH (on-site)	7.90 @28.8°C	---	6.5-8.5	Electrometric	07 Jun 2023	MGF
Sulfate	<1.0	mg/L	250	Turbidimetric	09 Jun 2023	RRM
Taste	No Objectional Taste	---	No Objectional Taste	Flavor Threshold Test	07 Jun 2023	RRM
Total Dissolved Solids (TDS)	135	mg/L	500	Gravimetric, Dried @180°C	08 Jun 2023	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	08 Jun 2023	RRM

Notes & References:

Standard Methods for the Examination of Water and Wastewater, 24th Edition.

DOH Administrative Order No. 2017-0010, PNSDW 2017.

Certified by:Lovely Grace D. Montoya, RCh
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