



Echem ENVIRONMENTAL TESTING LABORATORY CORPORATION

Laboratory: 10 Quezon Road, San Isidro, San Simon, Pampanga

Satellite Office: G/F ASCORP Bldg., Mc Arthur Highway, Dolores, City of San Fernando, Pampanga

Sales: 0942-316-2538 • 0945-798-6962 | (045) 435-2795

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Technical: 0917-164-2927 • 0917-164-2944

DOH Accreditation No.03-002-21-LW-2 Valid until December 31, 2023

DENR C.R.No. 074/2021 Valid until September 28, 2024

TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)**

Test Report No.: **TR-22A-142B**

Address: **Level 3 2nd Phase, BPO Bldg., UP Town Corporate Center, 216 Katipunan Ave., Diliman, Quezon City**

Date and Time Received: **03 Jan 2022 @04:50PM**

Contact Person: **Ms. Florisza I. Faustino**

Sampled By: **Echem**

COC Number: **2022-A0035**

Report Date: **19 Jan 2022**

Sample ID:	S22-A03-108D	Sampling Date:	03 Jan 2022
Sample Description:	N5	Sampling Time:	10:30 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.82	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.78 @27.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	215	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-109D	Sampling Date:	03 Jan 2022
Sample Description:	SRCC Boston	Sampling Time:	10:39 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.60	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.85	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.80 @29.0°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	211	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID: S22-A03-110D		Sampling Date: 03 Jan 2022				
Sample Description: N4		Sampling Time: 10:45 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.60	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.72	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.68 @27.9°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	209	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-111D		Sampling Date: 03 Jan 2022				
Sample Description: N7		Sampling Time: 10:51 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.78	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.75 @27.8°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	212	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-112D		Sampling Date: 03 Jan 2022				
Sample Description: Tulfo Residence		Sampling Time: 10:59 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 6.71	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.67 @28.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	214	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID: S22-A03-114D		Sampling Date: 03 Jan 2022				
Sample Description: N2		Sampling Time: 11:12 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 7.06	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.01 @28.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	213	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-115D		Sampling Date: 03 Jan 2022				
Sample Description: N1		Sampling Time: 11:20 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.50	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.51	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.45 @27.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	217	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-116D		Sampling Date: 03 Jan 2022				
Sample Description: N3		Sampling Time: 11:28 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	0.16	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH6.87	TCU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.84 @29.6°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	212	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID: S22-A03-118D		Sampling Date: 03 Jan 2022				
Sample Description: BNC Pawikan		Sampling Time: 11:45 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.60	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.92	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.87 @28.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	200	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-120D		Sampling Date: 03 Jan 2022				
Sample Description: Beechcroft		Sampling Time: 11:59 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.76	TCU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.74 @27.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	220	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-121D		Sampling Date: 03 Jan 2022				
Sample Description: Villas		Sampling Time: 12:10 PM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 7.05	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.01 @27.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	225	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID: S22-A03-122D		Sampling Date: 03 Jan 2022	
Sample Description: BNC Backdoor		Sampling Time: 12:15 PM	
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan	

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 7.38	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.34 @28.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	224	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-124D		Sampling Date: 03 Jan 2022	
Sample Description: Sports Center Common Area		Sampling Time: 12:32 PM	
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan	

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 7.90	TCU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.71 @27.6°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	225	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: S22-A03-125D		Sampling Date: 03 Jan 2022	
Sample Description: Sports Center Kitchen		Sampling Time: 12:36 PM	
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan	

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 7.33	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.24 @27.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	223	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID:	S22-A03-126D	Sampling Date:	03 Jan 2022
Sample Description:	Golf Kitchen	Sampling Time:	12:45 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.90	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.84 @27.8°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	195	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-127D	Sampling Date:	03 Jan 2022
Sample Description:	Caddie	Sampling Time:	12:52 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 6.74	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.64 @27.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	193	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-130D	Sampling Date:	03 Jan 2022
Sample Description:	N9	Sampling Time:	01:29 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Chlorine, Residual	0.40	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 7.07	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.01 @27.6°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	196	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID:	S22-A03-132D	Sampling Date:	03 Jan 2022
Sample Description:	SBV Condo	Sampling Time:	01:45 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.92	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.89 @28.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	210	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-133D	Sampling Date:	03 Jan 2022
Sample Description:	N6B	Sampling Time:	01:49 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.41	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.69 @29.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	196	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Notes & References:

Standard Methods for the Examination of Water and Wastewater, 23rd Edition.

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

Skyray AAS 9000, Atomic Absorption Spectrophotometry.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition.



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Technical: 0917-164-2927 • 0917-164-2944

Certified by:


Lovely Grace D. Montoya, RCh
Chemist, PRC No. 13651

Approved by:


May Ann M. Estavillo, RCh
QA/QC Manager, PRC No. 8652

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DOH Accreditation No.03-002-21-LW-2 Valid until December 31, 2023
 DENR C.R.No. 074/2021 Valid until September 28, 2024

TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)** Test Report No.: **TR-22A-142B**
 Address: **Level 3 2nd Phase, BPO Bldg., UP Town Corporate Center, 216 Katipunan Ave., Diliman, Quezon City** Date and Time Received: **03 Jan 2022 @04:50PM**
 Contact Person: **Ms. Florisza I. Faustino** Sampled By: **ECHEM**
 COC Number: **2022-A0035** Report Date: **19 Jan 2022**

Sample ID: **S22-A03-113D** Sampling Date: **03 Jan 2022**
 Sample Description: **Reservoir 1** Sampling Time: **11:10 AM**
 Sample Matrix: **Drinking Water** Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Chlorine, Residual	0.60	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 7.02	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.98 @27.6°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	215	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID: **S22-A03-134D** Sampling Date: **03 Jan 2022**
 Sample Description: **Reservoir 2** Sampling Time: **01:58 PM**
 Sample Matrix: **Drinking Water** Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG/JSS
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Chlorine, Residual	0.60	mg/L	0.30-1.50	Colorimetric	03 Jan 2022	MGF
Color, Apparent	<5 @pH 7.30	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.23 @27.9°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	198	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Certified by:

 20 Jan 2022
Lovely Grace D. Montoya, RCh
Chemist, PRC No. 13651

Approved by:

 20 Jan 2022
Max Ann M. Estavillo, RCh
QA/QC Manager, PRC No. 8652

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TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)**

Test Report No.: **TR-22A-142B**

Address: **Level 3 2nd Phase, BPO Bldg., UP Town Corporate Center, 216 Katipunan Ave., Dilliman, Quezon City**

Date and Time Received: **03 Jan 2022 @04:50PM**

Contact Person: **Ms. Florisza I. Faustino**

Sampled By: **ECHEM**

COC Number: **2022-A0035**

Report Date: **19 Jan 2022**

Sample ID:	S22-A03-117D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 7	Sampling Time:	11:37 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 6.77	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.71 @29.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	209	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-119D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 6	Sampling Time:	11:51 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 6.95	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.91 @27.4°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	185	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID:	S22-A03-123D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 5	Sampling Time:	12:24 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 6.94	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.89 @27.4°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	200	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-128D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 8	Sampling Time:	01:10 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	0.16	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.82	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.76 @28.1°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	196	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-129D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 9	Sampling Time:	01:25 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.95	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.87 @27.7°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	200	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS



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Sample ID:	S22-A03-131D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 10	Sampling Time:	01:37 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	<0.12	mg/L	0.40	Persulfate	07 Jan 2022	TGG/JSS
Color, Apparent	<5 @pH 6.27	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	7.21 @27.6°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	199	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

Sample ID:	S22-A03-135D	Sampling Date:	03 Jan 2022
Sample Description:	Deepwell 11	Sampling Time:	02:11 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Arsenic	<0.005	mg/L	0.01	Gaseous Hydride Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Cadmium	<0.0003	mg/L	0.003	Flame Atomic Absorption Spectroscopy	07 Jan 2022	LDM
Iron	<0.005	mg/L	1.0	Phenanthroline	11 Jan 2022	TGG/JSS
Lead	<0.0004	mg/L	0.01	Flame Atomic Absorption Spectroscopy	06 Jan 2022	LDM
Manganese	0.16	mg/L	0.40	Persulfate	07 Jan 2022	JSS/TGG
Color, Apparent	<5 @pH 6.72	CU	10	Visual Comparison	04 Jan 2022	CSF
Nitrate as NO ₃ -N	<0.10	mg/L	50	Colorimetric, Brucine	05 Jan 2022	RRM
pH (on-site)	6.68 @27.4°C	---	6.5-8.5	Electrometric	03 Jan 2022	MGF
Total Dissolved Solids (TDS)	197	mg/L	600	Gravimetric, Dried @180°C	07 Jan 2022	RRM
Turbidity	<1.0	NTU	5.0	Colorimetric	05 Jan 2022	JSS

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