



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

Email: echemenvironmental@gmail.com

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

DOH Accreditation No.03-014-1820-LW-2 Valid until December 2020
DENR C.R.No. 074/2017 Valid until October 16, 2020

TEST REPORT

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

Test Report No.: **TR-20H-074A**

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

Date and Time Received: **05 Aug 2020 @05:35PM**

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

Sampled By: **ECEM**

COC Number: **2020-H0019**

Report Date: **11 Aug 2020**

Sample ID:	S20-H06-001D	Sampling Date:	05 Aug 2020
Sample Description:	BNC Pawikan	Sampling Time:	11:35 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @05:46PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @05:46PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @05:46PM	AHP

Sample ID:	S20-H06-002D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 6	Sampling Time:	11:43 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @05:49PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @05:49PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @05:49PM	AHP

Sample ID:	S20-H06-003D	Sampling Date:	05 Aug 2020
Sample Description:	Beechcroft	Sampling Time:	12:05 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:01PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:01PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:01PM	AHP

Sample ID:	S20-H06-004D	Sampling Date:	05 Aug 2020
Sample Description:	Villas	Sampling Time:	11:58 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:04PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:04PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:04PM	AHP

Sample ID:	S20-H06-005D	Sampling Date:	05 Aug 2020
Sample Description:	BNC Backdoor	Sampling Time:	11:52 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:07PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:07PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:07PM	AHP



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

Email: echemenvironmental@gmail.com

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

Sample ID:	S20-H06-006D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 5	Sampling Time:	12:13 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:10PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:10PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:10PM	AHP

Sample ID:	S20-H06-007D	Sampling Date:	05 Aug 2020
Sample Description:	Sports Center Common Area	Sampling Time:	12:24 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:13PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:13PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:13PM	AHP

Sample ID:	S20-H06-008D	Sampling Date:	05 Aug 2020
Sample Description:	Sports Center Kitchen	Sampling Time:	12:21 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:16PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:16PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:16PM	AHP

Sample ID:	S20-H06-009D	Sampling Date:	05 Aug 2020
Sample Description:	Golf Kitchen	Sampling Time:	12:52 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:19PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:19PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:19PM	AHP

Sample ID:	S20-H06-010D	Sampling Date:	05 Aug 2020
Sample Description:	Caddie	Sampling Time:	01:02 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:22PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:22PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:22PM	AHP

Sample ID:	S20-H06-011D	Sampling Date:	05 Aug 2020
Sample Description:	N5	Sampling Time:	08:55 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:25PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:25PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:25PM	AHP



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

Email: ecchemenvironmental@gmail.com

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

Sample ID:	S20-H06-012D	Sampling Date:	05 Aug 2020
Sample Description:	SRCC Boston	Sampling Time:	02:08 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:28PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:28PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:28PM	AHP

Sample ID:	S20-H06-013D	Sampling Date:	05 Aug 2020
Sample Description:	N4	Sampling Time:	09:07 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:31PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:31PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:31PM	AHP

Sample ID:	S20-H06-014D	Sampling Date:	05 Aug 2020
Sample Description:	N7	Sampling Time:	10:46 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:34PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:34PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:34PM	AHP

Sample ID:	S20-H06-015D	Sampling Date:	05 Aug 2020
Sample Description:	Mr. Gregorio Residence	Sampling Time:	10:55 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:37PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:37PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:37PM	AHP

Sample ID:	S20-H06-016D	Sampling Date:	05 Aug 2020
Sample Description:	Reservoir 1	Sampling Time:	11:01 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:40PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:40PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:40PM	AHP

Sample ID:	S20-H06-017D	Sampling Date:	05 Aug 2020
Sample Description:	N2	Sampling Time:	11:10 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:43PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:43PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:43PM	AHP



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

Email: echemenvironmental@gmail.com

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

Sample ID:	S20-H06-018D	Sampling Date:	05 Aug 2020
Sample Description:	N1	Sampling Time:	11:16 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:46PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:46PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:46PM	AHP

Sample ID:	S20-H06-019D	Sampling Date:	05 Aug 2020
Sample Description:	N3	Sampling Time:	11:23 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @06:49PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:49PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @06:49PM	AHP

Sample ID:	S20-H06-020D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 7	Sampling Time:	02:19 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:02PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:02PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:02PM	AHP

Sample ID:	S20-H06-021D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 8	Sampling Time:	01:10 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:05PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:05PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:05PM	AHP

Sample ID:	S20-H06-022D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 9	Sampling Time:	01:15 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:08PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:08PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:08PM	AHP

Sample ID:	S20-H06-023D	Sampling Date:	05 Aug 2020
Sample Description:	N9	Sampling Time:	01:22 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:11PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:11PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:11PM	AHP



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

Email: echemenvironmental@gmail.com

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

Sample ID:	S20-H06-024D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 10	Sampling Time:	01:28 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:14PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:14PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:14PM	AHP

Sample ID:	S20-H06-025D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 11	Sampling Time:	02:00 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:17PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:17PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:17PM	AHP

Sample ID:	S20-H06-026D	Sampling Date:	05 Aug 2020
Sample Description:	SBV Condo	Sampling Time:	01:45 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:20PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:20PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:20PM	AHP

Sample ID:	S20-H06-027D	Sampling Date:	05 Aug 2020
Sample Description:	N6B	Sampling Time:	01:53 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:23PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:23PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:23PM	AHP

Sample ID:	S20-H06-028D	Sampling Date:	05 Aug 2020
Sample Description:	Reservoir 2	Sampling Time:	01:40 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Remarks	Method	Date Analyzed	Analyst
E.coli	Absent	MPN/100 mL	Absent	PASSED	MTFT Thermotolerant Coliform Test (EC Medium)	05 Aug 2020 @07:26PM	AHP
Thermotolerant Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:26PM	AHP
Heterotrophic Plate Count (HPC)	<1	CFU/mL	< 500	PASSED	Pour Plate	05 Aug 2020 @07:35PM	AHP
Total Coliform	<1.1	MPN/100 mL	< 1.1	PASSED	Multiple Tube Fermentation Technique	05 Aug 2020 @07:26PM	AHP



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

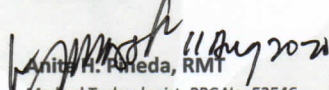
Email: echemenvironmental@gmail.com

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

Notes & References:

*Standard Methods for the Examination of Water and Wastewater, 23rd Edition.
DOH Administrative Order No. 2017-0010, PNSDW 2017.*

Certified by:


Arlene H. Pineda, RMT
Medical Technologist, PRC No. 52546

Approved by:


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

Test results written in this report are based on the samples as received by the laboratory. No alteration or modification of this test report shall be binding against Echem unless in writing and signed by a duly authorized representative of the company. This report shall not be reproduced, except in full, without the written permission from the laboratory.

Not valid without
company seal



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

Email: echemenvironmental@gmail.com

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

DOH Accreditation No.03-014-1820-LW-2 Valid until December 2020

DENR C.R.No. 074/2017 Valid until October 16, 2020

TEST REPORT

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

Test Report No.: **TR-20H-074B**

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

Date and Time Received: **05 Aug 2020 @05:35PM**

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

Sampled By: **ECHEM**

COC Number: **2020-H0019**

Report Date: **12 Aug 2020**

Sample ID:	S20-H06-001D	Sampling Date:	05 Aug 2020			
Sample Description:	BNC Pawikan	Sampling Time:	11:35 AM			
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan			
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.94	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.79 @31.8°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	154	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-002D	Sampling Date:	05 Aug 2020			
Sample Description:	Deepwell 6	Sampling Time:	11:43 AM			
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan			
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.96 @31.7°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	163	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-003D	Sampling Date:	05 Aug 2020			
Sample Description:	Beechcroft	Sampling Time:	12:05 PM			
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan			
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.61	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.75 @30.5°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	137	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-004D	Sampling Date:	05 Aug 2020			
Sample Description:	Villas	Sampling Time:	11:58 AM			
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan			
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.75	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.79 @30.6°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	159	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: echemenvironmental@gmail.com

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

Sample ID: S20-H06-005D				Sampling Date: 05 Aug 2020		
Sample Description: BNC Backdoor				Sampling Time: 11:52 AM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.94	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.99 @31.0°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	135	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: S20-H06-006D				Sampling Date: 05 Aug 2020		
Sample Description: Deepwell 5				Sampling Time: 12:13 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.85 @31.6°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	214	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: S20-H06-007D				Sampling Date: 05 Aug 2020		
Sample Description: Sports Center Common Area				Sampling Time: 12:24 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.69	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.76 @30.8°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	175	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: S20-H06-008D				Sampling Date: 05 Aug 2020		
Sample Description: Sports Center Kitchen				Sampling Time: 12:21 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.44	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.76 @30.8°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	131	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: S20-H06-009D				Sampling Date: 05 Aug 2020		
Sample Description: Golf Kitchen				Sampling Time: 12:52 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.51	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.23 @30.7°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	203	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: ecchemenvironmental@gmail.com

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

Sample ID: S20-H06-010D				Sampling Date: 05 Aug 2020		
Sample Description: Caddie				Sampling Time: 01:02 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.57	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.39 @30.6°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	161	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF
Sample ID: S20-H06-011D				Sampling Date: 05 Aug 2020		
Sample Description: N5				Sampling Time: 08:55 AM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.51	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.53 @28.7°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	199	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF
Sample ID: S20-H06-012D				Sampling Date: 05 Aug 2020		
Sample Description: SRCC Boston				Sampling Time: 02:08 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.86	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.77 @30.9°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	177	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF
Sample ID: S20-H06-013D				Sampling Date: 05 Aug 2020		
Sample Description: N4				Sampling Time: 09:07 AM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.91	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.13 @29.0°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	161	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF
Sample ID: S20-H06-014D				Sampling Date: 05 Aug 2020		
Sample Description: N7				Sampling Time: 10:46 AM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	1.02	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.79 @30.4°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	145	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: echemenvironmental@gmail.com

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

Sample ID: **S20-H06-015D**

Sampling Date: **05 Aug 2020**

Sample Description: **Mr. Gregorio Residence**

Sampling Time: **10:55 AM**

Sample Matrix: **Drinking Water**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	1.08	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.02 @31.0°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	133	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: **S20-H06-016D**

Sampling Date: **05 Aug 2020**

Sample Description: **Reservoir 1**

Sampling Time: **11:01 AM**

Sample Matrix: **Drinking Water**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	1.17	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.37 @30.9°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	187	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: **S20-H06-017D**

Sampling Date: **05 Aug 2020**

Sample Description: **N2**

Sampling Time: **11:10 AM**

Sample Matrix: **Drinking Water**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.86	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.76 @32.2°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	145	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: **S20-H06-018D**

Sampling Date: **05 Aug 2020**

Sample Description: **N1**

Sampling Time: **11:16 AM**

Sample Matrix: **Drinking Water**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.91	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.15 @31.8°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	141	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID: **S20-H06-019D**

Sampling Date: **05 Aug 2020**

Sample Description: **N3**

Sampling Time: **11:23 AM**

Sample Matrix: **Drinking Water**

Sampling Location: **Anvaya Cove, Morong, Bataan**

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	0.69	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.94 @31.7°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	165	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: echemenvironmental@gmail.com

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

Sample ID:	S20-H06-020D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 7	Sampling Time:	02:19 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.00 @32.2°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	242	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-021D	Sampling Date:	05 Aug 2020
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
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.70 @31.1°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	167	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-022D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 9	Sampling Time:	01:15 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.36 @29.9°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	135	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-023D	Sampling Date:	05 Aug 2020
Sample Description:	N9	Sampling Time:	01:22 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Chlorine, Residual	1.27	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.53 @31.5°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	222	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

Sample ID:	S20-H06-024D	Sampling Date:	05 Aug 2020
Sample Description:	Deepwell 10	Sampling Time:	01:28 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	6.39 @29.4°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	141	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: echemenvironmental@gmail.com

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

<i>Sample ID:</i>	S20-H06-025D	<i>Sampling Date:</i>	05 Aug 2020
<i>Sample Description:</i>	Deepwell 11	<i>Sampling Time:</i>	02:00 PM
<i>Sample Matrix:</i>	Drinking Water	<i>Sampling Location:</i>	Anvaya Cove, Morong, Bataan

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.07 @31.3°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	199	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

<i>Sample ID:</i>	S20-H06-026D	<i>Sampling Date:</i>	05 Aug 2020
<i>Sample Description:</i>	SBV Condo	<i>Sampling Time:</i>	01:45 PM
<i>Sample Matrix:</i>	Drinking Water	<i>Sampling Location:</i>	Anvaya Cove, Morong, Bataan

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chlorine, Residual	1.15	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.21 @31.6°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	199	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

<i>Sample ID:</i>	S20-H06-027D	<i>Sampling Date:</i>	05 Aug 2020
<i>Sample Description:</i>	N6B	<i>Sampling Time:</i>	01:53 PM
<i>Sample Matrix:</i>	Drinking Water	<i>Sampling Location:</i>	Anvaya Cove, Morong, Bataan

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chlorine, Residual	1.29	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.15 @31.5°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	205	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF

<i>Sample ID:</i>	S20-H06-028D	<i>Sampling Date:</i>	05 Aug 2020
<i>Sample Description:</i>	Reservoir 2	<i>Sampling Time:</i>	01:40 PM
<i>Sample Matrix:</i>	Drinking Water	<i>Sampling Location:</i>	Anvaya Cove, Morong, Bataan

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Limit</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chlorine, Residual	1.33	mg/L	0.30-1.50	Colorimetric	05 Aug 2020	CSF
Iron	<0.10	mg/L	1.0	Phenanthroline	11 Aug 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	10 Aug 2020	RRM
pH (on-site)	7.00 @31.2°C	---	6.5-8.5	Electrometric	05 Aug 2020	MBS
Total Hardness as CaCO ₃	171	mg/L	300	EDTA Titrimetric	08 Aug 2020	CSF



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

Email: echemenvironmental@gmail.com

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

Notes & References:

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

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

Certified & Approved by:


May Ann M. Estavillo, RCh

QA/QC Manager, PRC No.8652

Test results written in this report are based on the samples as received by the laboratory. No alteration or modification of this test report shall be binding against Echem unless in writing and signed by a duly authorized representative of the company. This report shall not be reproduced, except in full, without the written permission from the laboratory.

Not valid without
company seal