

Republic of the Philippines Department of Environment and Natural Resources ENVIRONMENTAL MANAGEMENT BUREAU

Regional Office No. VIII

DENR 8 Compound, Brgy. 2, Jones Extension, Tacloban City

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MEMORANDUM

INVIRUNMENTAL MANAGEMENT BUNEA

RELEASED

DATE: 8:24am TIME:

FOR

ENGR.WILLIAM P. CUÑADO

Director

Environmental Management Bureau DENR Compound, Visayas Avenue

Diliman, Quezon City

Attention

Environmental Quality Division

Water Quality Management Section

FROM

OIC-Regional Director

EMB Region VIII

SUBJECT

Second Quarter Consolidated Monitoring Results for the

Priority River Monitoring Program

DATE

June 27,2022

Submitting herewith is the second quarter monitoring results for Canturing River, Binahaan River and Bao River under Priority Rivers Monitoring Program in Region VIII.

For his information.

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

ENVIRONMENTAL MANAGEMENT BUREAU REGION 8

DENR Compound, Brgy. 2, Tacloban City

PRIORITY RIVER REPORT (QUARTERLY)

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION - AMBIENT SECTION

				2nd Quarter Water Quality M		aan River							
	Waterbody Parameter Stn. No. Stn. ID APRIL MAY JUNE Average Min Max Criterion												
Region	Waterbody	Parameter	Stn. No.	the state of the s	Liver Contract	MAY	JUNE	Average	Min	Max	Criterion		
				Control of the Contro	ess C) 4 stations								
VIII	Rinahaan River	DO mo/l					The state of the s	- William -	- www.	5 ma/l (minim	5 ma/l (minimur		
	Diriginadi i 1440i	DO mg/L			4.88	6.11	6.20	5.73	4.88	6.20	80		
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	5.99	5.40	5.55	5.65	5.40	5.99			
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte	21.00	22.00	42.00	28.33	21.00	42.00			
SVIII.	Dinahaan Divor	TCC mall	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	18.00	16.00	36.00	23.33	16.00	36.00	5 mg/L (minimum 80 6.5-9.0		
VIII	Dillalladii Niyer	100 Hg/L	3	Midstream, Brgy. Benito, Dagami, Leyte	16.00	24.00	16.00	18.67	16.00	24.00			
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	6.00	5.00	15.00	8.67	5.00	15.00			
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte	7.75	7.51	7.51	7.59	7.51	7.75	,		
2.000	Disease Disease	1200	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	7.93	7.59	7.49	7.67	7.49	7.93	0500		
VIII	Binanaan River	pri	3	Midstream, Brgy. Benito, Dagami, Leyte	8.00	8.00	7.70	7.90	7.70	8.00	6.5-9.0		
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	7.90	7.59	7.88	7.79	7.59	7.90			
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte							7		
TV DIE	District Division	r BOD, mg/L	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	0.90	0.60	1.20	0.90	0.60	1.20			
AIII	Binahaan River	BOD, mg/L	. 3	Midstream, Brgy. Benito, Dagami, Leyte	1.90	1.00	0.70	1.20	0.70	1.90			
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	1,50	1.50	0.10	1.03	0.10	1.50			
					1	Mouth of Binahaan, San Joaquin, Palo, Leyte	5400.00	7000.00	1600.00	3925.28	1600.00	7000.00	
Vario			2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	2400.00	7000.00	2400.00	3429.05	2400.00	7000.00	5 mg/L (minimum) 80 6.5-9.0 7 200		
VIII	Binahaan River	Fecal Coliform	3	Midstream, Brgy, Benito, Dagami, Leyte	790.00	24000.00	3500.00	4048.57	790.00	24000.00	200		
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	1600.00	24000.00	700.00	2995.55	700.00	24000.00			
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte	27.30	27.40	27,89	27.53	27.30	27.89			
		0	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	27.31	27.31	27.56	27.39	27.31	27.56	25-31		
AIII	Binahaan River	Temp. OC (b)	3	Midstream, Brgy. Benito, Dagami, Leyte	28.00	27,59	27.51		27.51	28.00			
		1	4	Upstream, Brgy. Tingib, Pastrana, Leyte	28.00	27.50	27.45	27.65	27.45	28.00			
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte		5.00	15.00	10.00	5.00	15.00			
	Hazarra proporti na postar	7.528400	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte		5.00	5.00	5.00	5.00	5.00	1000		
VIII	Binahaan River	Color	3	Midstream, Brgy. Benito, Dagami, Leyte		5.00	3.00	4.00	3.00	5.00	25-31		
	1 1	4	Upstream, Brgy. Tingib, Pastrana, Leyte		5.00	1.00	3.00	1.00	5.00				

			- 1	Mouth of Binahaan, San Joaquin, Palo, Leyte	0.21	0.14	0.03	0.13	0.03	0.21	
1.000	Discharge Char	Nitrate	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	0.18	0.07	0.19	0.15	0.07	0.19	25-31
VIII	Binahaan River	Nitrate	3	Midstream, Brgy. Benito, Dagami, Leyte	0.23	0.08	0.08	0.13	0.08	0.23	25-31
		Ī	4	Upstream, Brgy, Tingib, Pastrana, Leyte	0.24	0.07	0.17	0.16	0.07	0.24	
			1	Mouth of Binahaan, San Joaquin, Palo, Leyte	0.00	0.06	0.09	0.05	0.00	0.09	
3000°	District District	Di	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	0.00	0.04	0.04	0.03	0.00	0.04	25.24
VIII	Binahaan River	Phosphate	3	Midstream, Brgy. Benito, Dagami, Leyte	0.00	0.04	0.04	0.03	0.00	0.04	25-31
			4 Upstream, Brgy. Tingib, Pastrana, Leyte 0.00 0.04 0.04	0.02	0.00	0.04					
			-1	Mouth of Binahaan, San Joaquin, Palo, Leyte	ND	5.18	19.60	12.39	5.18	19.60	
vatr	Binch see Diseas	Chlorida	2	Downstream, Brgy. Rose Martirez, Dagami, Leyte	6.63	3,81	2.57	4.34	2.57	6.63	25-31
VIII	Binahaan River	Chloride	3	Midstream, Brgy. Benito, Dagami, Leyte	7.40	4.01	2.76	4.72	2.76	7.40	25-31
			4	Upstream, Brgy. Tingib, Pastrana, Leyte	8.45	4.39	4.39	5.74	4.39	8.45	

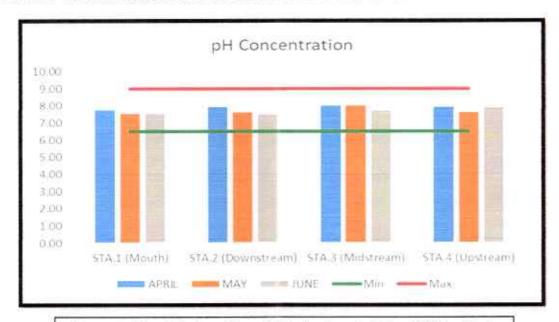
ND-Not Detectable

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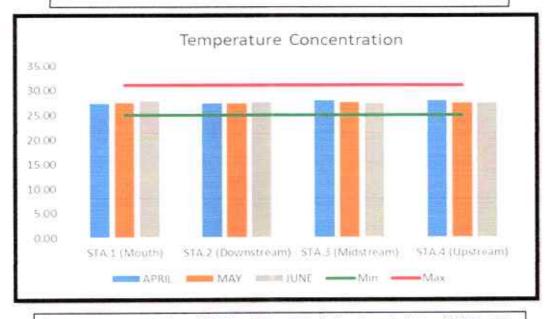
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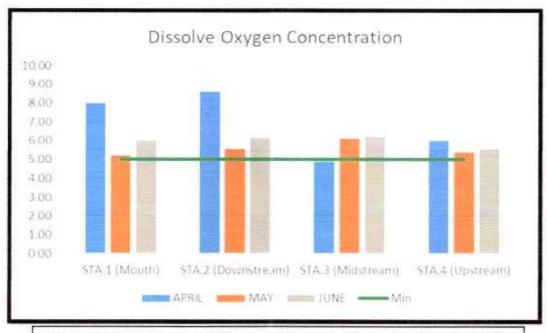
SECOND QUARTER RESULTS OF BINAHAAN RIVER IN GRAPH PRESENTATIONS



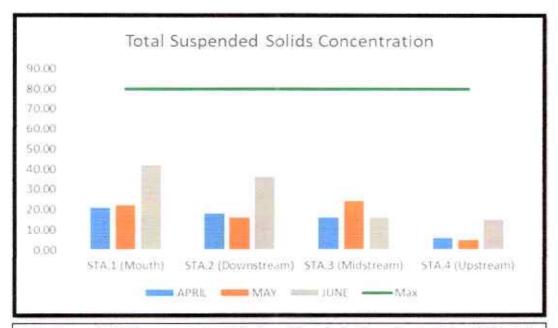
pH concentration of Binahaan River of all stations from April-June 2022 is within the minimum and maximum range of 6.5-9.0 standards of Class C waters.



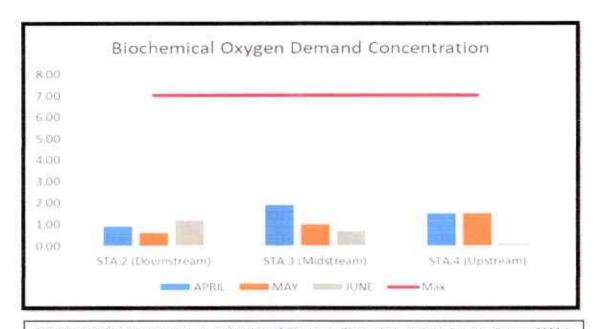
Temperature concentration of Binahaan River of all stations from April-June 2022 is within the minimum and maximum range of 25-31 standards of Class C waters.



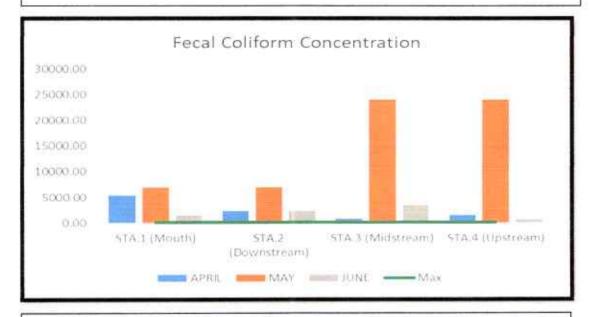
Dissolved Oxygen concentration of Binahaan River of all stations from April-June 2022 is within the minimum of 5mg/L standards of Class C waters, except for Sta.3 for the month of April which has a value of 4.88 mg/L which below the min standards.



Total Suspended Solids concentration of Binahaan River of all stations from April-June 2022 within the maximum value 80mg/L standards of Class C waters.



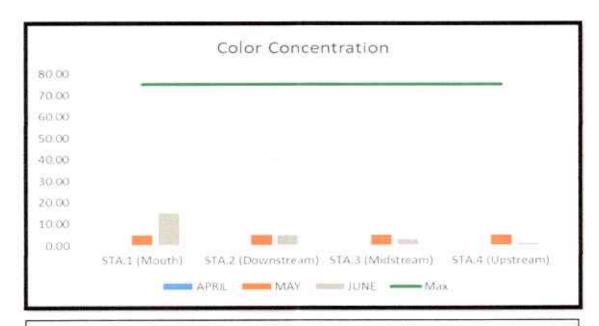
Biochemical Oxygen Demand concentration of Binahaan River of all stations from April-June 2022 is within the maximum value of 7mg/L standards of Class C waters.



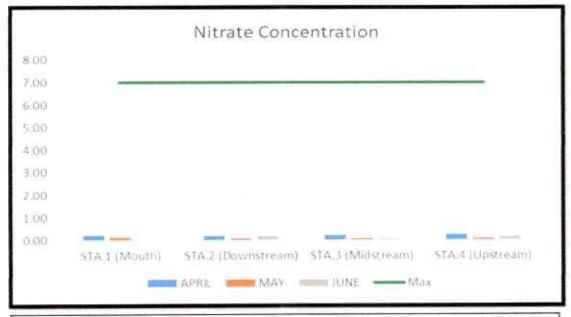
Fecal Coliform concentration of Binahaan River of all stations from April-June 2022 is above the maximum value of 200MPN/100mg/L standards of Class C waters.

The primary sources of high fecal coliform count of bacteria to freshwater probable the wastewater treatment plant discharges, failing septic tanks, and animal wastes.

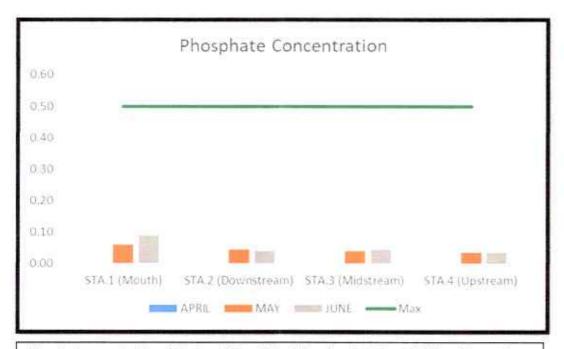
Local Government Units were informed of the laboratory results of the waterbody within their jurisdiction.



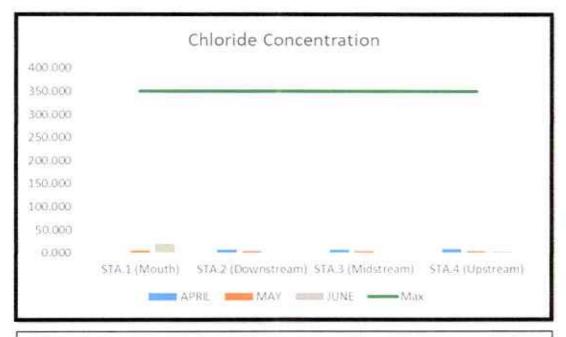
Color concentration of Binahaan River of all stations from April-June 2022 is within the maximum value of 75 TCU standards of Class C waters.



Nitrate concentration of Binahaan River of all stations from April-June 2022 is within the maximum value of 7mg/L standards of Class C waters.



Phosphate concentration of Binahaan River of all stations from April-June 2022 is within maximum value of 0.5mg/L standards of Class C waters.



Chloride concentration of Binahaan River of all stations from April-June 2022 is within the maximum value of 350mg/L standards of Class C waters.

Note: Chloride value of Sta.1 for the month from April is not detectable, for graphical presentation detection limit of Chloride is 0.089mg/L is being used.



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

ENVIRONMENTAL MANAGEMENT BUREAU REGION 8

DENR Compound, Brgy. 2, Tacloban City

PRIORITY RIVER REPORT (QUARTERLY)

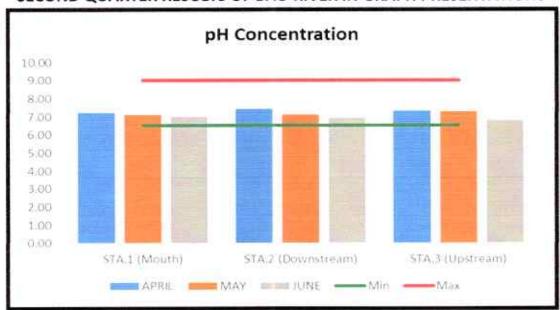
Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION - AMBIENT SECTION

			115	2nd Quart	ter Water Quality Monito	ning of Bao River			10000		THE SHARE SHARE		
					CY 2022								
Region	Waterbody	Parameter	Stn. No.	Stn. ID	APRIL	MAY	JUNE	Average	Min	Max	Criterion		
					Priority River (Class C)	stations		ALC: NO.					
			1	TGP 7A (Bao River Impact Station)	4.50	7.15	7.15	6.27	4.50	7.15			
VIII	Bao River	DO mg/L	2	TGP 8 Upstream of Montebello Bridge	8.96 7.35 7.35 7.89 5.23 7.00 7.00 6.41	7.35	8.96	5 mg/L (minimum)					
			3	TGP 11 Bao headwater (Aguiting)	5.23	7.00	7.00	6.41	5.23	7.00			
	'III Bao River		1	TGP 7A (Bao River Impact Station)	55.00	14.00	14.00	27.67	14.00	55.00			
VIII		TSS mg/L	2	TGP 8 Upstream of Montebello Bridge	61.00	9.00	9.00	26.33	9.00	61.00	80		
	50,000,000		3	TGP 11 Bao headwater (Aguiting)	2.30	ND	ND	2.30	2.30	2.30			
			1	TGP 7A (Bao River Impact Station)	7.20	7.00	7.00	7.07	7.00	7.20			
VIII	II Bao River	pH	2	TGP 8 Upstream of Montebello Bridge	7.45	6.92	6.92	7.10	6.92	7.45	6.5-9.0		
	0.070,000,00		3	TGP 11 Bao headwater (Aguiting)	7.31	6.78	6.78	6.96	6.78	7.31			
	III Bao River		1	TGP 7A (Bao River Impact Station)	1.40	0.50	1:80	1.23	0.50	1.80			
VIII		BOD, mg/L	2	TGP 8 Upstream of Montebello Bridge	0.70	ND	0.90	0.80	0.70	0.90	7		
		===	3	TGP 11 Bao headwater (Aguiting)	0.30	ND	0.30	0.30	0.30	0.30			
	II Bao River		1	TGP 7A (Bao River Impact Station)	16000.00	16000.00	16000.00	16000.00	16000.00	16000.00			
VIII		Fecal Coliform	2	TGP 8 Upstream of Montebello Bridge	16000.00	16000.00	1300:00	6929.91	1300.00	16000.00	200		
	1745-00 mm		3	TGP 11 Bao headwater (Aguiting)	350.00	280.00	460.00	355.90	280.00	460.00			
			1	TGP 7A (Bao River Impact Station)	27.10	27.00	27.21	27.10	27.00	27.21			
VIII	Bao River	Temp. OC (b)	2	TGP 8 Upstream of Montebello Bridge	27.50	27.11	27.00	27.20	27.00	27.50	25-31		
	WSASSOTWIA	1110000400000000000	3	TGP 11 Bao headwater (Aguiting)	26.15	26.30	26.55	26.33	26.15	26.55	SASSESSES.		
14000			1	TGP 7A (Bao River Impact Station)		5.00	1.00	3.00	1.00	5.00			
VIII	Bao River	Color	Color	Color	Color	2	TGP 8 Upstream of Montebello Bridge		5.00	1.00		5.00	75
			3	TGP 11 Bao headwater (Aguiting)		5.00	1.00	3.00	1.00	5.00			
			- 1	TGP 7A (Bao River Impact Station)	0.16	0.06	0.08	0.10	0.06	0.16			
VIII	Bao River	Nitrate	2	TGP 8 Upstream of Montebello Bridge	0.14	0.03	0.04	0.07	0.03	0.14	7		
	1999 1 6662		3	TGP 11 Bao headwater (Aguiting)	0.05	0.04	0.02	0.04	0.02	0.05			
	II Bao River		-1	TGP 7A (Bao River Impact Station)	0.00	0.04	0.03	0.02	0.00	0.04			
VIII		Phosphate	2	TGP 8 Upstream of Montebello Bridge	0.00	0.00	0.02	0.01	0.00	0.02	75		
	1-23MM 200TE	500 EAST 100 SEC.	3	TGP 11 Bao headwater (Aguiting)	0.00	0.04	0.03	0.02	0.00	0.04	1995		
	100		1	TGP 7A (Bao River Impact Station)	20.61	7.70	9.02	12.44	7.70	20.61			
VIII	Bao River	Chloride	2	TGP 8 Upstream of Montebello Bridge	19.70	7.90	8.50	12.03	7.90	19.70	75		
	a section section	- APARTITATION	3	TGP 11 Bao headwater (Aguiting)	4.48	7.91	2.27	4.89	2.27	7.91	1 '*		

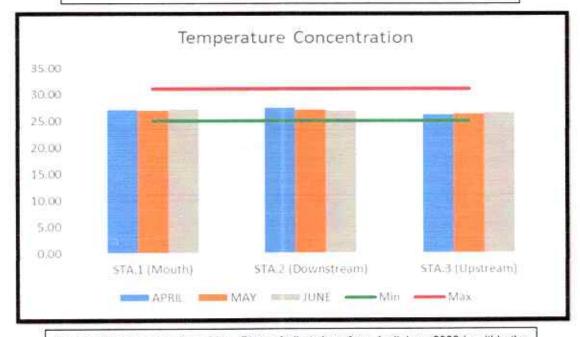
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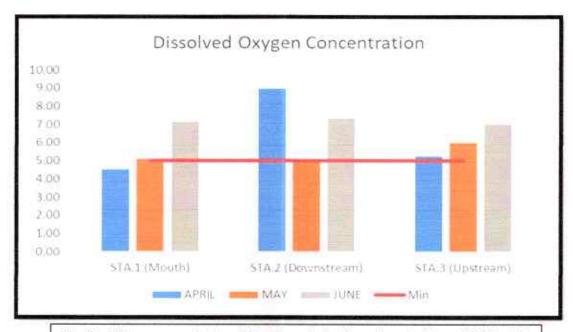
SECOND QUARTER RESULTS OF BAO RIVER IN GRAPH PRESENTATIONS



pH concentration of Bao River of all stations from April-June 2022 is within the minimum and maximum range of 6.5-9.0 standards of Class C waters.



Temperature concentration of Bao River of all stations from April-June 2022 is within the minimum and maximum range of 25-31 standards of Class C waters.

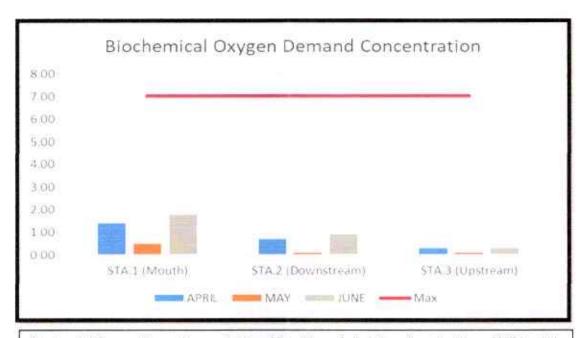


Dissolved Oxygen concentration of Bao River of all stations from April-June 2022 is within the minimum (5mg/L) standards of Class C waters except for station 1 for the month of April which has a value of 4.50mg/L



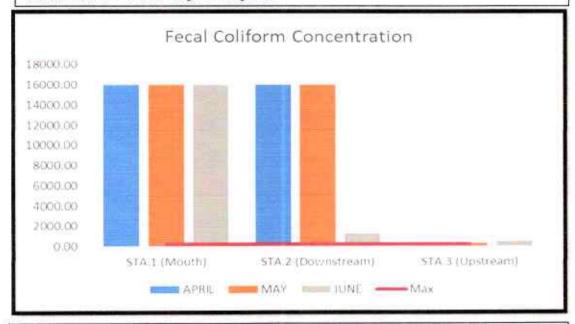
Total Suspended Solids concentration of Bao River of all stations from April-June 2022 is within the maximum value of 80mg/L standards of Class C waters.

Note: TSS value of Sta.3 for the month from April-June is not detectable, for graphical presentation detection limit of TSS is 2.3mg/L is being used.



Biochemical Oxygen Demand concentration of Bao River of all stations from April-June 2022 is within the maximum value of 7mg/L standards of Class C waters.

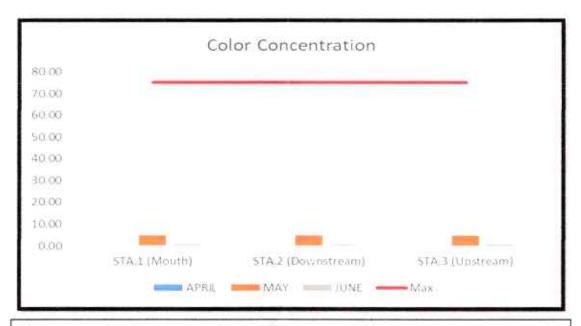
Note: BOD value of Sta.2& 3 for the month from May-June is not detectable, for graphical presentation detection limit of BOD is 0.01mg/L is being used.



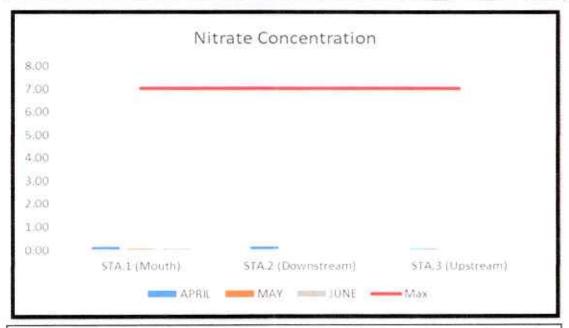
Fecal Coliform concentration of Bao River of all stations from April-June 2022 is above the maximum value of 200MPN/100mg/L standards of Class C waters.

The primary sources of high fecal coliform count of bacteria to freshwater probable the wastewater treatment plant discharges, failing septic tanks, and animal wastes.

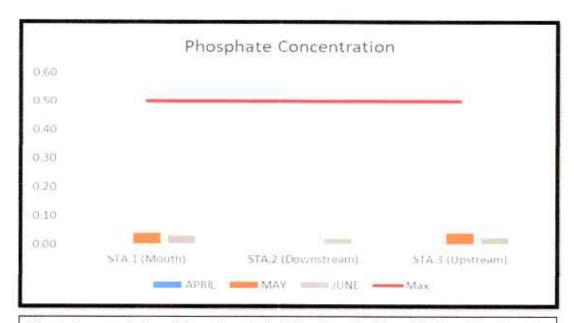
Local Government Units were informed of the laboratory results of the waterbody within their jurisdiction.



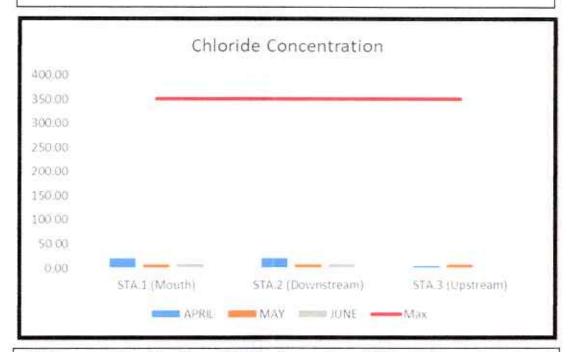
Color concentration of Bao River of all stations from April-June 2022 is within the maximum value of 75 TCU standards of Class C waters.



Nitrate concentration of Bao River of all stations from April-June 2022 is within below the maximum value of 7mg/L standards of Class C waters.



Phosphate concentration of Bao River of all stations from April-June 2022 is within below the maximum value of 0.5mg/L standards of Class C waters.



Chloride concentration of Bao River of all stations from April-June 2022 is within the maximum value of 350mg/L standards of Class C waters.



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

ENVIRONMENTAL MANAGEMENT BUREAU REGION 8

DENR Compound, Brgy. 2, Tacloban City

PRIORITY RIVER REPORT (QUARTERLY)

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION - AMBIENT SECTION

				2nd Quarter Water Quality		Canturing Rive	er				
					/ 2022						
Region	Waterbody	Parameter	Stn. No.	Stn. ID	APRIL	MAY	JUNE	Average	Min	Max	Criterion
			- Adding	The second secon	(Class C) 4 stati		17/08/				
VIII			1	Mouth of Canturing, Brgy. Mambahaw	3.94	6.14	7.00	5.69	3.94	7.00	5 mg/L (minimum
	Canturing	DO mg/L	2	Downstream, Brgy. Canturing	4.46	5.80	7.12	5.79	4.46	7.12	
	River	98.19-	3	Midstream, Brgy. Nasaug	7.06	5.59	6.15	6.27	5.59	7.06	, mg c (mmman
			4	Upstream, Brgy. San Jose	4.24			4.24	4.24	4.24	
			1	Mouth of Canturing, Brgy. Mambahaw	7.00	3.00	3.00	4.33	3	7	
VIII	Canturing	TSS mg/L	2	Downstream, Brgy. Canturing	11.00	ND	4.00	7,50	4	11	80
VIII	River	133 fig/E	3	Midstream, Brgy. Nasaug	6.00	ND	3.00	4.50	3	6] 00
			4	Upstream, Brgy. San Jose	27.00			27.00	27	27	
	100		1	Mouth of Canturing, Brgy. Mambahaw	7.08	7.15	7.71	7.31	7.08	7.71	
1200	Canturing		2	Downstream, Brgy. Canturing	7.19	7.32	7.90	7.47	7.19	7.90	6500
VIII	River	pН	3	Midstream, Brgy. Nasaug	7.97	8.05	7.82	7.95	7.82	8.05	6.5-9.0
			4	Upstream, Brgy. San Jose	8.00			8.00	8.00	8.00	
			1	Mouth of Canturing, Brgy. Mambahaw							7
1.004	Canturing	200	2	Downstream, Brgy. Canturing	0.80	0.70	1.00	0.83	0.70	1.00	
VIII	River	BOD, mg/L	3	Midstream, Brgy. Nasaug	0.60	0.40	0.70	0.57	0.40	0.70	
	0.000		4	Upstream, Brgy. San Jose	1.80			1.80	1.80	1.80	1
		F 10.84	1	Mouth of Canturing, Brgy. Mambahaw	1600.00	1600.00	600.00 5400.00	2400	1600	5400	
- verve	Canturing		2	Downstream, Brgy. Canturing	1600.00	1600.00	5400.00	2400	1600	5400	200
VIII	River	Fecal Coliform	3	Midstream, Brgy. Nasaug	1600.00	1600,00	490.00	1078	490	1600	200
			4	Upstream, Brgy. San Jose	1600.00			1600	1600	1600	1
			1	Mouth of Canturing, Brgy. Mambahaw	29.27	29.30	28.00	28.86	28.00	29.30	
700	Canturing		2	Downstream, Brgy. Canturing	27.30	28.45	27.45	27.73	27.30	28.45	
VIII	River	Temp. OC (b)	3	Midstream, Brgy. Nasaug	27.50	28.00	27.50	27.67	27.50	28.00	25-31
	2200		4	Upstream, Brgy. San Jose	28.00			28.00	28.00	28.00	1
	+		1	Mouth of Canturing, Brgy. Mambahaw	5.00	5.00	1.00	3.67	1.00	5.00	
TO A NEW YORK	Canturing		2	Downstream, Brgy. Canturing	5.00	5.00	1.00	3.67	1.00	5.00	1
VIII	River	Color	3	Midstream, Brgy. Nasaug	5.00	5.00	1.00	3.67	1.00	5.00	75
		1 1	4	Upstream, Brgy. San Jose	5.00	2000-00		5.00	5.00	5.00	1

VIII			1	Mouth of Canturing, Brgy. Mambahaw	0.73	0.29	0.04	0.35	0.04	.18	
	Canturing	Nikoto	2	Downstream, Brgy. Canturing	0.47	0.29	0.18	0.31	0.18		(9)
	River	Nitrate	3	Midstream, Brgy. Nasaug	0.44	0.25	0.63	0.44	0.25	0.63	0.5
			4	Upstream, Brgy. San Jose	0.11			0.11	0.11	0.11	
VIII			1	Mouth of Canturing, Brgy, Mambahaw	0.00	0.04	0.02	0.02	0.00	0.04	0.5
	Canturing	Dhasakata	2	Downstream, Brgy. Canturing	0.01	0.04	0.02	0.02	0.01		
	River	Phosphate	3	Midstream, Brgy. Nasaug	0.00	0.04	0.02	0.02	0.00	0.04	
	1	_ [4	Upstream, Brgy. San Jose	0.00			0.00	0.00	0.00	
VIII		1 Mou	Mouth of Canturing, Brgy, Mambahaw	108.03	605.38	2041.66	918.36	108.03	2041.66		
	Canturing	Chloride	2	Downstream, Brgy. Canturing	16.03	8.23	15.40	13.22	8.23	16.03	250
	River	Chionae	3	Midstream, Brgy. Nasaug	15.50	6.58	7.48	9.85	6.58	15.50	350
			4	Upstream, Brgy. San Jose	31.49			31.49	31.49	31.49	350

Note: May and June dry at Station 4

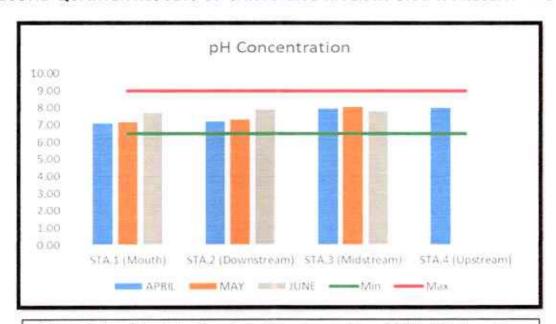
ND-Not Detectable

FM-EMED-24

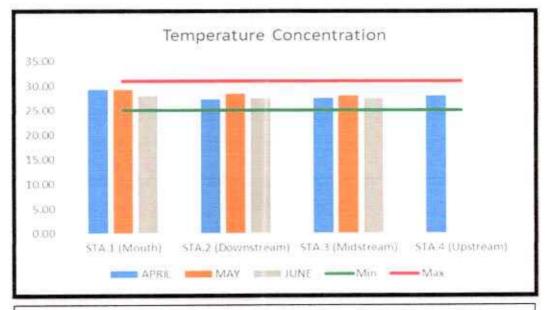
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10-01-17

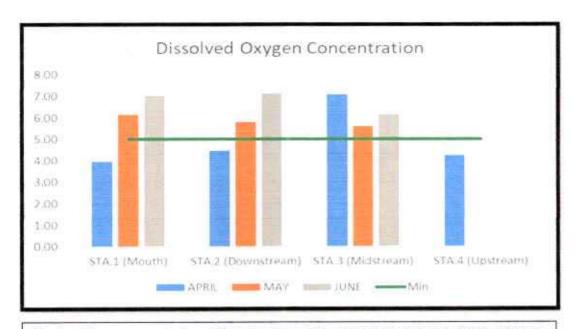
SECOND QUARTER RESULTS OF CANTURING RIVER IN GRAPH PRESENTATIONS



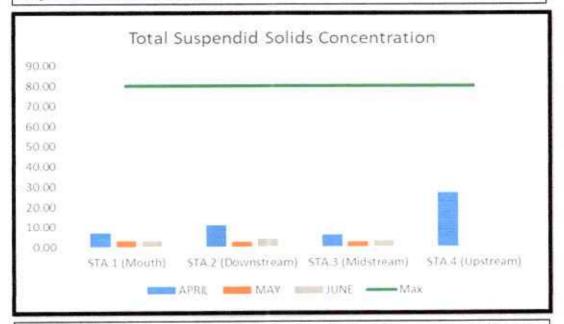
pH concentration of Canturing River of all stations from April-June 2022 is within the minimum and maximum range of 6.5-9.0 standards of Class C waters.



Temperature concentration of Canturing River of all stations from April-June 2022 is within the minimum and maximum range of 25-31 standards of Class C waters.

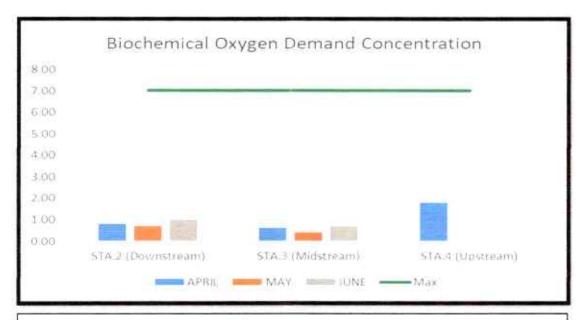


Dissolved Oxygen concentration of Canturing River of all stations from April-June 2022 is within the standards except for the stations of 1,2&3 for the month of April, is below the minimum value of 5mg/L standards of Class C waters.

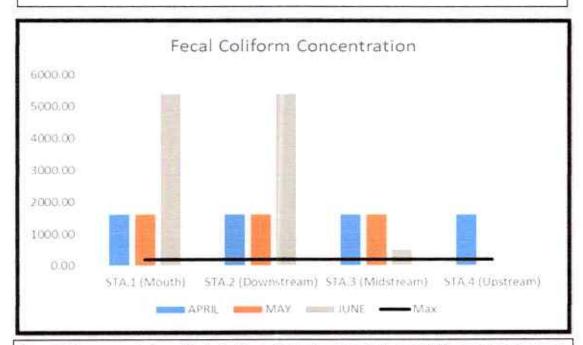


Total Suspended Solids concentration of Canturing River of all stations from April-June 2022 is within the maximum value of 80mg/L standards of Class C waters.

Note: TSS value of sta. 2-3 for the month of May is not detectable, for graph presentation detection limit of 2.3 mg/L of TSS is being used.



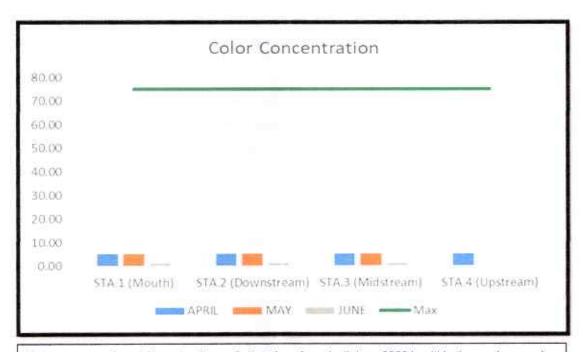
Biochemical Oxygen Demand concentration of Canturing River of all stations from April-June 2022 is within the maximum value of 7mg/L standards of Class C waters.



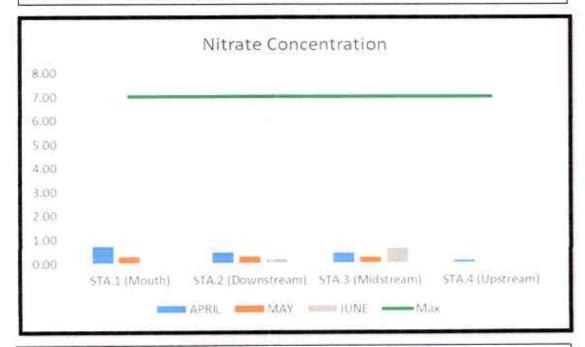
Fecal Coliform concentration of Canturing River of all stations from April-June 2022 is above the maximum value of 200MPN/100mg/L standards of Class C waters.

The primary sources of high fecal coliform count of bacteria to freshwater probable the wastewater treatment plant discharges, failing septic tanks, and animal wastes.

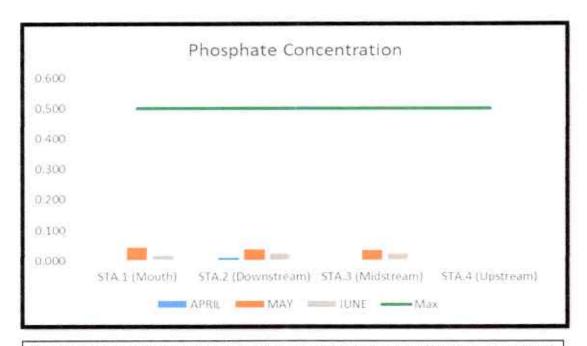
Local Government Units were informed of the laboratory results of the waterbody within their jurisdiction.



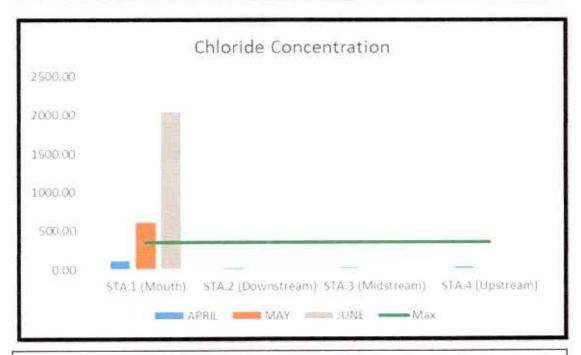
Color concentration of Canturing River of all stations from April-June 2022 is within the maximum value of 75 TCU standards of Class C waters.



Nitrate concentration of Canturing River of all stations from April-June 2022 is within the maximum value of 7mg/L standards of Class C waters.



Phosphate concentration of Canturing River of all stations from April-June 2022 is within the maximum value of 0.5mg/L standards of Class C waters.



Chloride concentration of Canturing River of station (mouth) except for the month of April is above the maximum value of 350, the rest of the stations from April-June 2022 is below the maximum value of 350mg/L standards of Class C waters.