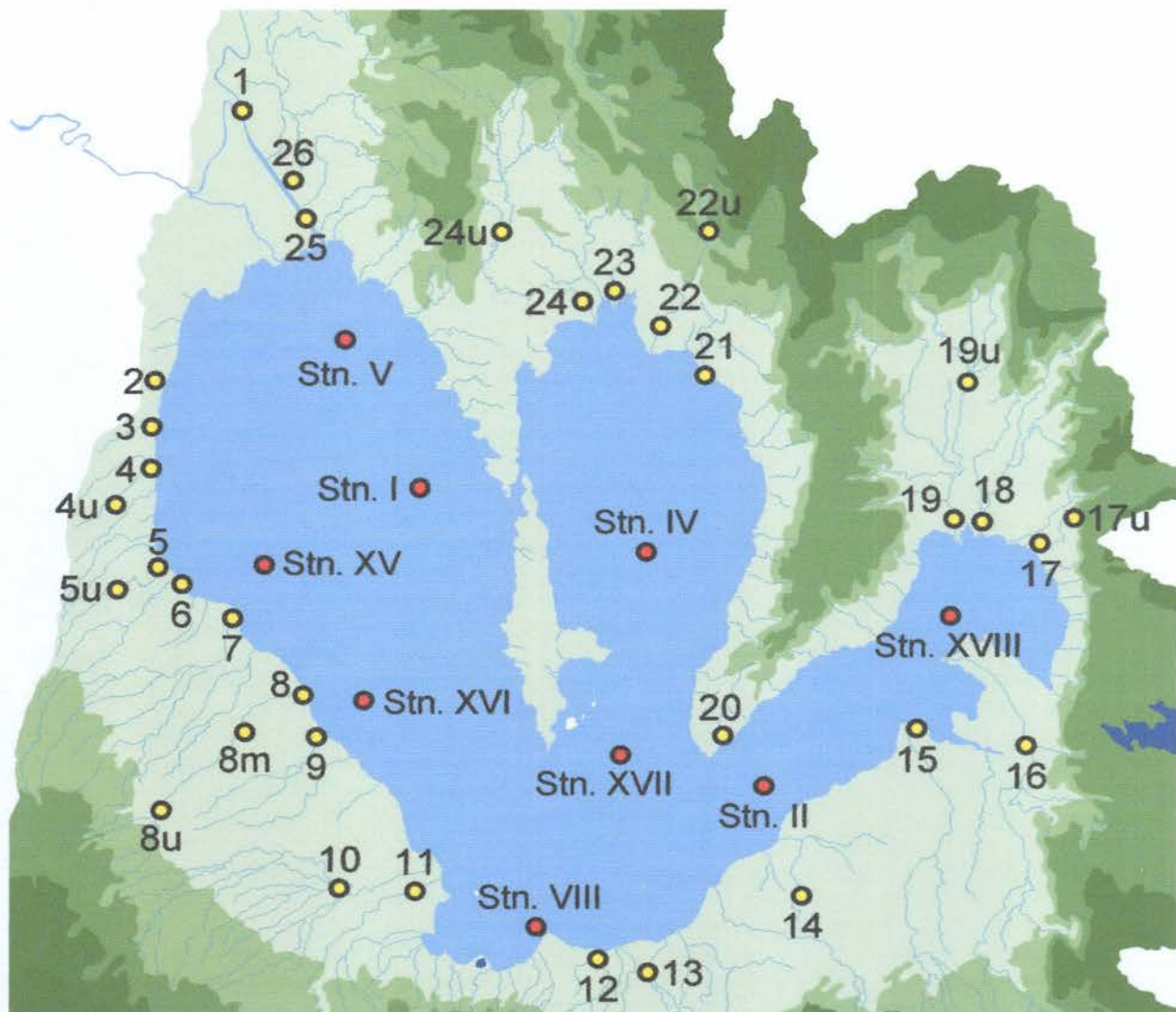


LLDA Quarterly Water Quality Monitoring Report Laguna Lake and Tributary Rivers April to June, 2015

Sampling Stations and Locations:



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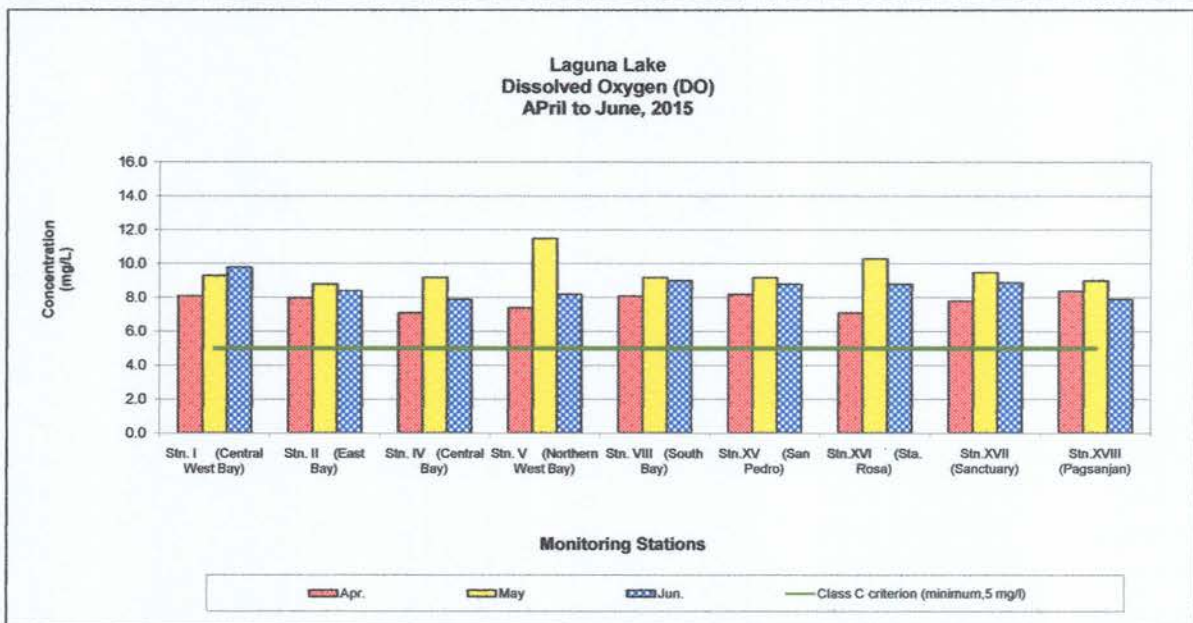
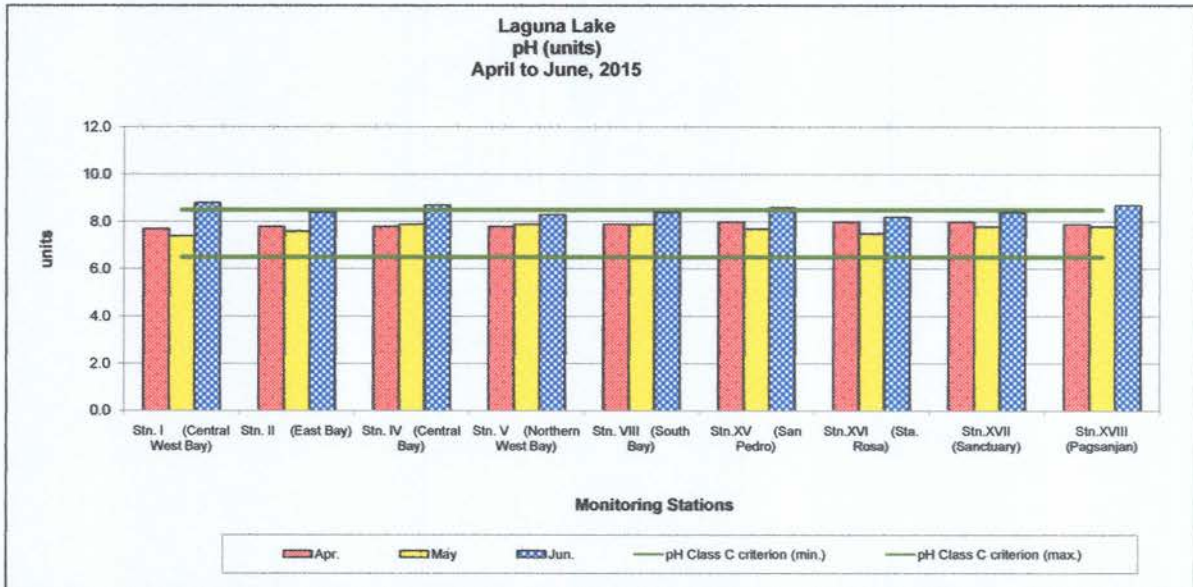
A. Laguna Lake Stations

Location	Water Quality Parameters*					
	pH (units)			Dissolved Oxygen (mg/L)		
	Apr.	May	Jun.	Apr.	May	Jun.
Stn. I (Central West Bay)	7.7	7.4	8.8	8.1	9.3	9.8
Stn. II (East Bay)	7.8	7.6	8.4	8.0	8.8	8.4
Stn. IV (Central Bay)	7.8	7.9	8.7	7.1	9.2	7.9
Stn. V (Northern West Bay)	7.8	7.9	8.3	7.4	11.5	8.2
Stn. VIII (South Bay)	7.9	7.9	8.4	8.1	9.2	9.0
Stn. XV (San Pedro)	8.0	7.7	8.6	8.2	9.2	8.8
Stn. XVI (Sta. Rosa)	8.0	7.5	8.2	7.1	10.3	8.8
Stn. XVII (Sanctuary)	8.0	7.8	8.4	7.8	9.5	8.9
Stn. XVIII (Pagsanjan)	7.9	7.8	8.7	8.4	9.0	7.9

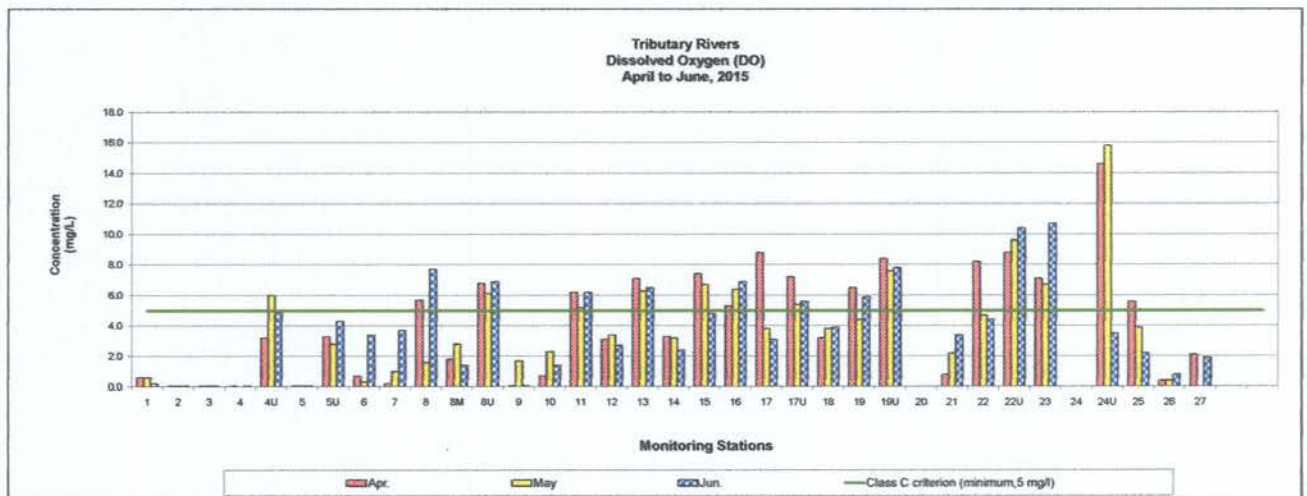
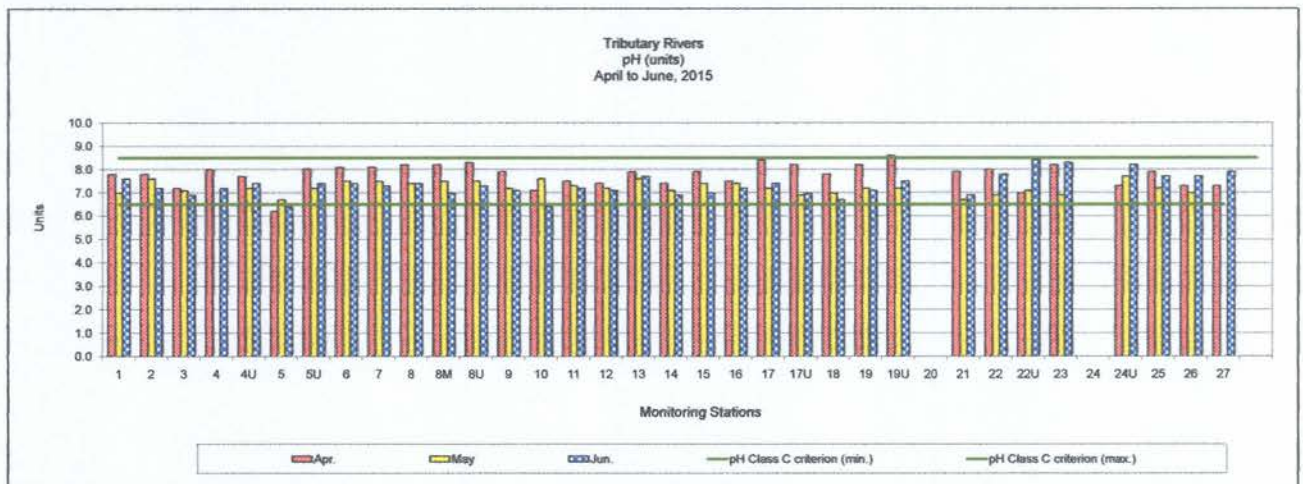
B. Tributary River Stations

Station	Location	Water Quality Parameters*					
		pH (units)			Dissolved Oxygen (mg/L)		
		Apr.	May	Jun.	Apr.	May	Jun.
1	Marikina	7.8	7.0	7.6	0.6	0.6	0.2
2	Bagumbayan (Taguig)	7.8	7.6	7.2	0.05	0.05	0.05
3	Buli Creek (Taguig)	7.2	7.1	6.9	0.05	0.05	0.05
4	Mangagate (Muntinlupa)-Downstream	8.0	-	7.2	0.05	-	0.05
4U	Mangagate (Muntinlupa)-Upstream	7.7	7.2	7.4	3.2	6.0	5.0
5	Tunasan (Muntinlupa)- Downstream	6.2	6.7	6.4	0.05	0.05	0.05
5U	Tunasan (Muntinlupa)- Upstream	8.0	7.2	7.4	3.3	2.8	4.3
6	San Pedro River (T2)	8.1	7.5	7.4	0.7	0.3	3.4
7	Biñan	8.1	7.5	7.3	0.2	1.0	3.7
8	Sta. Rosa- Downstream	8.2	7.4	7.4	5.7	1.6	7.7
8M	Sta. Rosa- Midstream	8.2	7.5	7.0	1.8	2.8	1.4
8U	Sta. Rosa- Upstream	8.3	7.5	7.3	6.8	6.1	6.9
9	Cabuyao	7.9	7.2	7.1	0.05	1.7	0.05
10	San Cristobal River (T3)	7.1	7.6	6.4	0.7	2.3	1.4
11	San Juan River (T5)	7.5	7.3	7.2	6.2	5.2	6.2
12	Los Baños	7.4	7.2	7.1	3.1	3.4	2.7
13	Bay River (T9)	7.9	7.6	7.7	7.1	6.3	6.5
14	Pila	7.4	7.1	6.9	3.3	3.2	2.4
15	Sta. Cruz River (T6)	7.9	7.4	7.0	7.4	6.7	4.8
16	Pagsanjan River (T8)	7.5	7.4	7.2	5.3	6.4	6.9
17	Pangil- Downstream	8.4	7.2	7.4	8.8	3.8	3.1
17U	Pangil- Upstream	8.2	6.9	7.0	7.2	5.4	5.6
18	Siniloan	7.8	7.0	6.7	3.2	3.8	3.9
19	Sta. Maria- Downstream	8.2	7.2	7.1	6.5	4.4	5.9
19U	Sta. Maria- Upstream	8.6	7.2	7.5	8.4	7.6	7.8
20	Jala-jala	-	-	-	-	-	-
21	Pililla	7.9	6.7	6.9	0.8	2.2	3.4
22	Tanay- Downstream	8.0	6.9	7.8	8.2	4.7	4.4
22U	Tanay- Upstream	7.0	7.1	8.4	8.8	9.6	10.4
23	Baras	8.2	6.9	8.3	7.1	6.7	10.7
24	Morong- Downstream	-	-	-	-	-	-
24U	Morong- Upstream	7.3	7.7	8.2	14.6	15.8	3.5
25	Manggahan Floodway (Taytay)	7.9	7.2	7.7	5.6	3.9	2.2
26	Sapang Baho (Cainta)	7.3	7.0	7.7	0.4	0.4	0.8
27	Angono	7.3	-	7.9	2.1	-	1.9

A. Laguna Lake



B. Tributary Rivers



STATIONS

- | | |
|-------------------------------------|---------------------------------|
| 1 Marikina | 14 Pila |
| 2 Bagumbayan (Taguig) | 15 Sta. Cruz River (T6) |
| 3 Buli Creek (Taguig) | 16 Pagsanjan River (T8) |
| 4 Mangagate (Muntinlupa)-Downstream | 17 Pangil- Downstream |
| 4u Mangagate (Muntinlupa)-Upstream | 17u Pangil- Upstream |
| 5 Tunasan (Muntinlupa)- Downstream | 18 Siniloan |
| 5u Tunasan (Muntinlupa)- Upstream | 19 Sta. Maria- Downstream |
| 6 San Pedro River (T2) | 19u Sta. Maria- Upstream |
| 7 Biñan | 20 Jala-jala |
| 8 Sta. Rosa- Downstream | 21 Pililla |
| 8m Sta. Rosa- Midstream | 22 Tanay- Downstream |
| 8u Sta. Rosa- Upstream | 22u Tanay- Upstream |
| 9 Cabuyao | 23 Baras |
| 10 San Cristobal River (T3) | 24 Morong- Downstream |
| 11 San Juan River (T5) | 24u Morong- Upstream |
| 12 Los Baños | 25 Manggahan Floodway (Taytay) |
| 13 Bay River (T9) | 26 Sapang Baho (Cainta) |
| | 27 Angono |

FINDINGS:

A. On pH :

Laguna Lake:

- For the 2nd quarter, the pH levels of the entire lake ranged from 7.4 to 8.8. The highest and lowest pH levels were both noted in Stn. I in June and May respectively.
- All of the nine (9) lake stations consistently passed the DENR Class C criteria for pH which is set at 6.5 to 8.5 except Stn. I in June.

Tributary Rivers:

- All of the 35 tributary river stations monitored in the 2nd quarter constantly passed the DENR Class C criteria for pH set at 6.5 to 8.5 except in Stn. 5 in April and June and Stn. 10 in June which were slightly below the minimum pH level, and in Stn. 19U in April which is higher than the maximum level.
- The pH levels in the tributary rivers ranged from 6.2 to 8.6. The highest pH level was noted in Stn. 19 in April while the lowest pH level was observed in Stn. 5 in April.

B. On Dissolved Oxygen (D.O.):

Laguna Lake:

- All of the nine (9) lake stations passed the DENR Class C criterion set at a minimum concentration of 5 mg/L.
- The lowest D.O. concentration at 7.1 mg/L was noted in Stns. IV and VI in April while the highest D.O. concentration at 11.5 mg/L was recorded in Stn.V in May.
- The high D.O. concentration is normally observed during summer months where high temperature in the entire lake is also noted.

Tributary Rivers:

- During the 2nd quarter of 2015, out of the 35 tributary river stations monitored, only 8 tributary stations consistently conformed with the DENR Class C criterion for DO and these were Stns. 8U, 11, 13, 16, 17u, 19U, 22U and 23.
- The monthly DO concentrations in 17 tributary river stations, namely; Stns. 1, 2, 3, 4, 5, 5U, 6, 7, 8M, 9, 10, 12, 14, 18, 21, 26 and 27 always failed the Class C criterion.
- Recorded DO concentrations ranged from 0.05 to 15.8 mg/L.
- There were 8 tributary river stations whose measured DO concentrations either complying or way below the minimum allowable level of 5.0 mg/L for Class C and these were Stns. 4U, 8, 15, 17, 19, 22, 24U, and 25.
- No sample was collected in Jala-jala River and Morong-Downstream for the 2nd quarter of 2015.