

# Project Update: September 2018

## A. Water Quality test- sampled in July, 2018 (Pre-monsoon season)

**QS Test Report / Certificate**  
**NS Accreditation No. Pro. 01/053-54**  
 Entry No. : NCL-46 (W) (6)-07-2018 Date Received : 30-07-2018  
 Sample : Water Date Completed : 15-08-2018  
 Client : NEBORS (Mukesh Chalise) Sampling Date : 27-07-2018  
 Sampled By : Dr. Mukesh Chalise

S. N.	Parameter	Test Method	Observed Values	
			Sample 1	Sample 2
1.	Dissolved Oxygen (% saturation)	Winkler Azide Modification, 4500-D, O, APHA	100	100

**Remarks:** The observed values for dissolved oxygen (% saturation) were found greater than 40% (acute level) in both samples.

## B. Water Quality Test (September, 2018- monsoon season)

**QS Test Report / Certificate**  
**NS Accreditation No. Pro. 01/053-54**  
 Entry No. : NCL-111 (W) (9)-09-2018 Date Received : 03-09-2018  
 Sample : River Water Date Completed : 13-09-2018  
 Client : NEBORS Sampling Date : 29-08-2018  
 Sampled By : Dr. Mukesh Chalise Location : Kalai

S. N.	Parameters	Test Methods	Observed Values								
			Spot No. 1	Spot No. 2	Spot No. 3	Spot No. 4	Spot No. 5	Spot No. 6	Spot No. 7	Spot No. 8	
1.	pH @ 25°C	Electrode, 4500-11, O, APHA	8.2	8.1	8.3	8.2	8.6	8.8	8.0	8.1	8.8
2.	Temperature (°C)	Conductivity Meter, 2130, APHA	30.5	32.4	21.8	17.2	24.2	24.4	27.4	17.2	17.2
3.	Total Dissolved Solids (mg/L)	Gravimetric, 2130, APHA	170	720	420	250	380	310	140	530	380
4.	Total Suspended Solids (mg/L)	Gravimetric, 2130, APHA	214	1630	504	275	640	644	238	280	1012
5.	Total Hardness (mg/L)	Titrimetric, 2130, APHA	150	160	170	140	160	240	240	140	170
6.	Ammonia (mg/L)	Nesslerization, 4500-45, O, APHA	0.04	0.03	0.01	0.11	0.14	0.21	0.22	0.14	0.09
7.	Nitrate (mg/L)	Cadmium Reduction, 4500-19, O, APHA	0.51	0.14	0.03	0.19	0.19	0.45	0.32	0.96	1.01
8.	Total Alkalinity as CaCO <sub>3</sub> (mg/L)	Titrimetric, 2130, APHA	164	206	110	146	189	210	204	146	130
9.	Calcium (mg/L)	EDTA Titrimetric, 3100-10, APHA	113.8	30.33	40.96	39.36	27.92	30.10	42.15	23.37	33.14
10.	Magnesium (mg/L)	EDTA Titrimetric, 3100-10, APHA	1.840	0.93	2.042	1.718	1.804	11.01	11.89	1.550	1.71
11.	Sulfate (mg/L)	Barium Chloride Method with Ignition, 4500-25, O, APHA	-1	-1	4.11	-1	-1	-1	-1	1.03	10.03
12.	Phosphorus (mg/L)	Ascorbic Acid, 4500-1, P, O, APHA	0.27	1.11	0.43	0.39	0.42	0.38	0.24	2.80	1.03
13.	Dissolved Oxygen (% saturation)	Winkler Azide Modification, 4500-D, O, APHA	70	62	32	78	88	31	81	36	36

**Remarks:** All the tested water samples were found slightly alkaline (pH) in nature with high turbidity values. The visible turbidity in all the tested samples were more than 2 (Nephelometric Turbidity Unit) (NTU) which showed low vulnerability to acid deposition. The calculated total ammonia (ammonia and ammonium) in all samples were found greater than 0.02mg/L in all sampled batches were indicative to high contamination productivity range.

Department and parliamentarians to make awareness on dolphin conservation and our activities (Note: There is no field assistance wages or finances provided to Dr. Chalise from Rufford budget).

Due to community business in rainy season agriculture activities such as paddy seedling planting and maize corn wedding, we could not conduct large scale census like in first phase but counting of individual in short segment on different habitat structure was frequently observed with help from citizen scientist (Bhojraj Dhunghana). Furthermore, they were busy to prepare dolphin festival in their free time. So, we did collect water samples but could not manage census again. It is also due to water level fluctuated and went lower due to occasional rain and drought in the area.



Field assistant (Shailendra Sharma) collecting water sample from various site with help from local community.



Dolphin awareness and sight showing by local partner (Citizen Scientist- Mr. Bhojh Raj Dhungana) in monsoon period. (©Bhojhrajh)

Video documentation of Dolphin and its related activities can be found in this link (Prepared by NEFEJ) <https://www.youtube.com/watch?v=fJpsMkM6t1o&t=1133s>