

## Mega Popular National Tourist Destination

**Dates:** July 1, 2021 – November 26, 2021  
**Size & Depth:** 55.0 Acres, average depth 8 ft.  
**Average Sludge Depth at Inception:** ~40”  
**Pre-Treatment Status:** Pea Green, Low Visibility, Periodic Odor  
**Treatment:** Sludge removal, Reduction of Turbidity, Support Tourism



**Quantitative Analysis:** Recorded by University Staff

Observation:	Visibility			
	(CM)	TP (mg/L)	TN (mg/L)	COD (mg/L)
06/09/21	67.0	0.35	1.80	36.0
06/21/21	55.0	0.26	1.10	28.0
06/28/21	45.0	0.21	0.70	27.0
07/12/21	46.0	0.12	0.90	36.5
07/28/21	51.0	0.04	0.60	14.0
08/05/21	48.0	0.07	0.90	14.0
08/15/21	65.0	0.01	0.70	27.0
08/22/21	59.0	0.02	0.80	13.8
09/03/21	66.0	0.10	0.95	14.5
09/10/21	72.0	0.03	0.85	15.2
09/18/21	77.0	0.04	0.60	13.7
09/23/21	84.0	0.02	0.95	15.3
09/30/21	96.0	0.01	0.85	13.8
10/07/21	103.0	0.02	0.60	11.9
10/14/21	111.0	0.03	0.30	12.3
10/21/21	131.0	0.02	0.20	11.9
10/28/21	133.0	0.01	0.45	13.2
11/05/21	145.0	0.04	0.40	11.4
11/12/21	160.0	0.03	0.35	11.1
11/17/21	173.0	0.03	0.30	10.9
11/24/21	174.0	0.02	0.25	8.4
12/02/21	187.0	0.01	0.25	7.2
12/09/21	204.0	0.02	0.20	6.8
12/15/21	217.0	0.01	0.20	6.3

**Qualitative Analysis:**

This project was conducted at a large inner-city lake (fed underground by a large river with a history of waste dumping) with two distinct halves - one (~30 acres) sits at the base of the city’s tallest building, a 3.2m sft multi-use development with the other connected half (~25 acres) serving as the water feature of a themed amusement park, which in cleaner times hosted non-motored recreational boats. The owner of the property has invested \$millions over the last few years searching for a solution to a remove sludge and return the lake to aesthetic and substantive health as the center-piece of its \$multi-billion subdivision.

**Dec 2021:** Visibility increased from 2ft (0 during high turbidity months) to more than 6 feet. The lake is alive with a healthy balance that supports natural remediation. Fish are abundant, there is no odor, pedestrians, children and joggers abound,

**August 2022:** A second year of treatments has brought the lake up to swimming standards (a national race in August 2022), and there is a dramatic renaissance afoot, with new commercial boat docks, lakeside cafes and a TryMarine contract for annual balancing treatments.