



07 April 2025

Dobson Ranch HOA  
2719 South Reyes  
Mesa, Arizona 85202

## March 2025 Lake Report

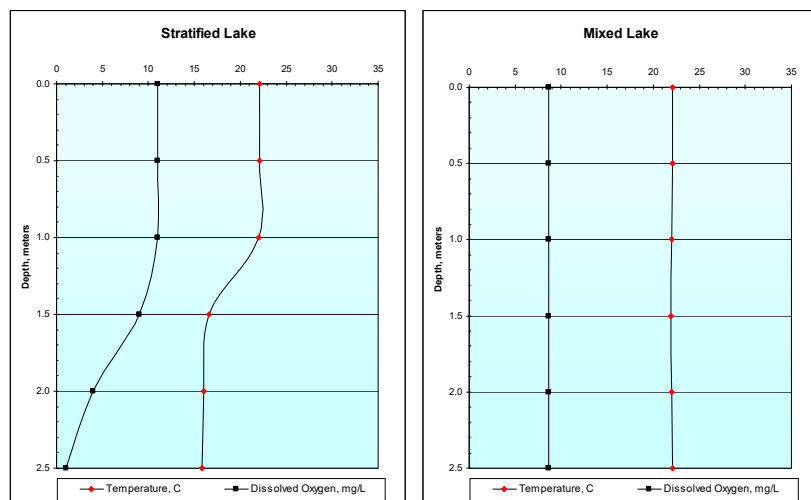
The following report presents the results of field inspections on the Dobson Ranch lakes for the month of March 2025. This report summarizes data collected under the revised program initiated in 2019 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Therefore, this report provides visual inspection, field and laboratory data for Lakes 1-4 completed during the month. Comparisons to the last comprehensive test (September 2024) are provided for those lakes. Field observations are also provided for Lakes 5-8. Field sheets for the inspections are also included.

A number of tools have been used to evaluate and quantify the water quality of each lake. These include: Arizona Department of Environmental Quality Numeric Targets for Urban Lakes, the Carlson Trophic Status Index (TSI), and a Lake Report Card based on that used by Arizona Game and Fish Department that was developed by Aquatic Consulting & Testing, Inc.

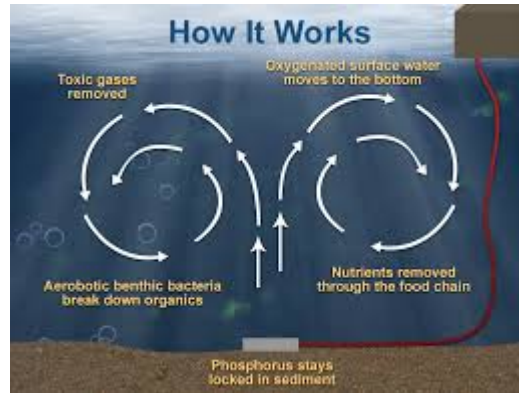
The following provides brief descriptions of some of the more important parameters.

### Temperature and Oxygen

Density differences in water caused by temperature produce a physical barrier to the exchange of gases and nutrients between water layers. Typically warmer (less dense) water rests above deeper, cooler (more dense) water. Deep waters can become anoxic (oxygen poor) and cause the formation and release of toxic gases as hydrogen sulfide and ammonia, and the release of plant nutrients as phosphates. A vertically mixed lake rarely suffers from such issues.

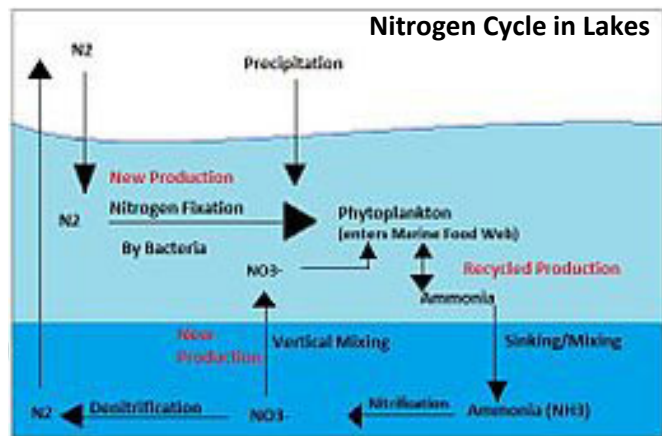
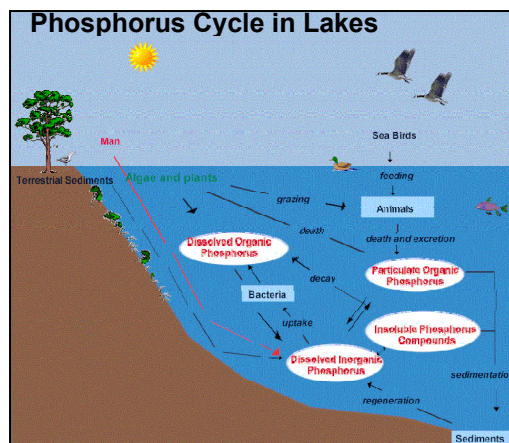


Aeration systems are designed to circulate and distribute oxygen vertically in the water column. Circulation is necessary for two primary purposes: (1) to deliver oxygen to the deeper waters for fish survival and (2) to maintain an aerobic environment throughout the lake to prevent the release and distribution of phosphates, ammonia, and sulfide from the anaerobic sediment.



## Nutrients

Algae are plants and require nitrogen and phosphorus for growth. In the desert southwest, large growths of planktonic algae typically form in the summer when total phosphorus concentrations are above 0.030 mg/L. Nitrogen values usually need to be at least 10 times that of phosphorus and in a soluble, usable (nitrate or ammonia) form to stimulate algae growth. Phosphorus and nitrogen cycles in the aquatic environment are illustrated below.



## Algae and Aquatic Weeds

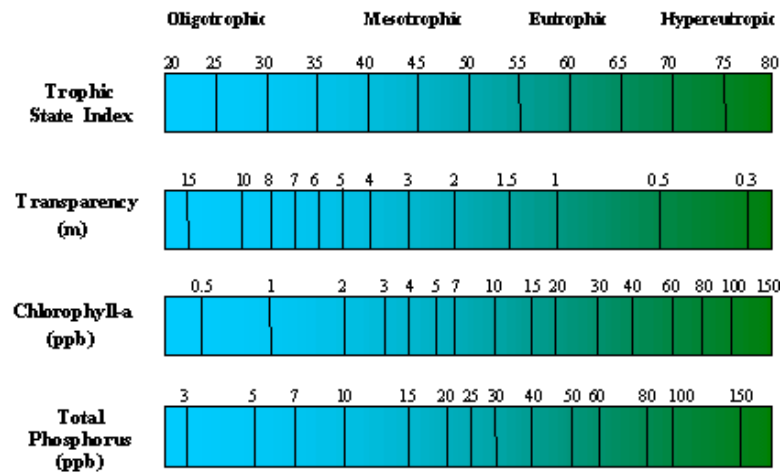
Algae are beneficial to a lake as they provide food for aquatic organisms and produce oxygen. However, some algae are undesirable and an overabundance of algae reduces aesthetic appeal and interferes with the ecological balance of the environment. Large die offs of algae can deplete dissolved oxygen in the water via bacterial utilization of the gas during decomposition of the plant biomass. Blue-green (Cyanophyta) algae

are least desirable because some forms can form stringers (long filaments) and large colonies (masses) and are difficult to chemically manage because of their mucilaginous coatings.

Submerged weeds can be beneficial because they also produce oxygen and provide habitat and shelter for aquatic animals. However, an overabundance of weeds reduces aesthetic appeal, interferes with fishing and boating activities, interferes with the ecological balance of the environment, and can also deplete dissolved oxygen if a rapid die-off occurs.

### Trophic Status Index

The Carlson Trophic Status Index (TSI) is a series of calculations that attempt to put a numerical value on water quality. The more algae and greener a lake is, the more nutrients a lake has, and the less transparent the water becomes, the higher the trophic status and the greater the TSI value. Three values are calculated using the Secchi disk depth, total phosphorus concentration, and chlorophyll measurement to obtain an average TSI. Those lakes with relatively low TSI values are unproductive and termed oligotrophic. Those lakes with very high TSI values are classified as productive (eutrophic). Those lakes with TSI values falling in between are considered mesotrophic.



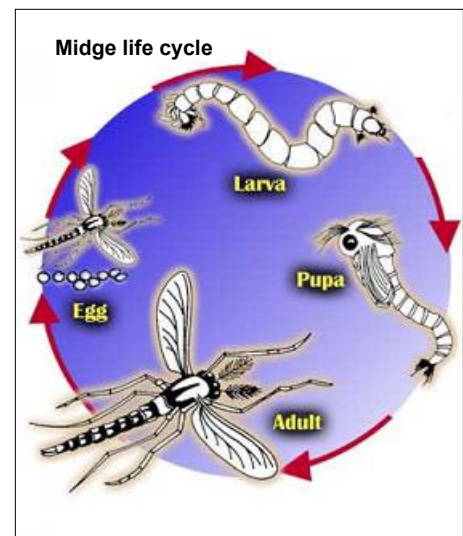
The Trophic Status report addendum provides each of these values for the sampling sites. For southern Arizona, a TSI of less than 60 is the target for reasonable aesthetic quality. Fisheries often flourish when TSI values are in the 55 to 65 range. Severe aesthetic and recreational problems occur when conditions result in TSI values of 80 or higher

## General Characteristics of Oligotrophic and Eutrophic Lakes

| Condition                  | Oligotrophic | Eutrophic |
|----------------------------|--------------|-----------|
| Productivity               | Low          | High      |
| Algae density              | Low          | High      |
| Nutrient concentrations    | Low          | High      |
| Hypolimnion oxygen content | High         | Low       |
| Sediment nutrient release  | Low to none  | High      |
| Organic matter             | Low          | High      |
| Light transparency         | Deep         | Shallow   |
| Macrophyte (weed) density  | Low          | High      |

### Midge flies

Midge flies are common inhabitants of most lakes. Adult females lay hundreds of eggs on the water surface. The eggs settle to the lake bottom and hatch in a few days. Larvae develop and grow in the superficial sediments over a three to four week period. In about 30 days the insect larvae become pupae, rise in the water column, and emerge as adult flies. The adults tend to swarm at dusk and dawn and become a nuisance. They fly into residents' eyes and mouths, congregate under eaves of houses, and leave a sticky messy residue when they die. Management techniques may include stocking of bottom-feeding fishes and application of bacterial or chemical larvicides. The primary control of midge flies has been stocking of fish that eat the larvae living in the lake sediment.



### Waterfowl

The adverse impacts of excessive waterfowl include fecal matter deposition and public health issues, turf destruction, aesthetic detracting, and fish consumption. The Arizona Game and Fish Department has recently adopted the following classification for ducks counts (per acre) in urban fishing lakes: <3 (excellent), 3-4 (good), 5-6 (fair), and >6 (poor; relocate non-migratory).

## March 2025 Report Narrative Summary

The following pages provide a summary of the monthly survey results. A brief narrative description is provided for each lake.

### Lake 1

The Lake 1 temperature ranged from a low of 17.0 C to a high of 18.2 C (63-65 F). The lake exhibited no thermal stratification (vertically mixed) and no significant loss of oxygen with depth. Water pH was 8.4 SU indicating low to moderate algae density. Dissolved oxygen (8.5-10.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Increases in dissolved oxygen concentration frequently occur during winter because of reduced respiration and decomposition rates at colder temperatures and the ability of cold water to hold more dissolved oxygen than warm water. Transparency was improved at nearly two meters and turbidity ranged from 3.1-3.3 NTU. Fountains were not in service.

Alkalinity (161 mg/L as CaCO<sub>3</sub>) and hardness (186 mg/L as CaCO<sub>3</sub>) were fairly stable. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake decreased to 652 mg/L.

Waterfowl mean density was less than two birds per acre (<2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted.

**Waterfowl Density Ranking System (AZG&FD)**

| No. waterfowl per acre | Ranking   |
|------------------------|-----------|
| <3                     | Excellent |
| 3-4                    | Good      |
| 5-6                    | Fair      |
| >6                     | Poor      |

Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors. The sediment contained 280 larvae per sq m.

Bio-available nitrogen and total nitrogen changed slightly to 0.17 mg/L and 0.86 mg/L, respectively. Phosphorus concentration was fairly stable at 0.015 mg/L. Ammonia remained low at 0.06 mg/L. At ambient temperature and pH, no toxicity issues would result. Chlorophyll concentration, indicative of algal biomass, decreased slightly to 1.07 ug/L. Algae density was correspondingly low ( $1.06 \times 10^3$  cells/mL). The dominant alga was *Chroomonas*, a benign cryptophyte. The golden alga, *Prymnesium parvum*, was not detected. *P. parvum* can produce a toxin that destroys exposed cells in the gill tissue of fish, causing asphyxiation and death. No submerged weeds were observed.



The mean TSI value decreased from 45 to 42, with the lake remaining in the mesotrophic category. Greater transparency accounted for the TSI decrease. At present conditions, the lake may have improved clarity and become aesthetically more pleasing, but may have anoxia in the deep waters during the summer.

The *E. coli* concentration was <1 MPN/100 mL. The maximum bacteria level for full body contact (FBC=swimming) and partial body contact (PBC=fishing and boating) recreation, is 126/100 mL (30-day geometric mean).

The Lake Report Card value for March 2025 was 52; a two (2) unit increase from September 2024 and lake conditions remained in the “excellent” category.

## **Lake 2**

Water temperature ranged from 17.0-18.6 C (63-65 F). Lake 2 was vertically mixed. No substantial loss of oxygen in the deep waters occurred (see attached profiles). The surface dissolved oxygen concentrations (8.7-10.8 mg/L) were above the target 6.0 mg/L concentration desired to protect the fishery and no fish stress was observed. Water pH was stable at 8.4-8.6 SU, and indicated minimal change in suspended (planktonic) algae density. Low pH is advantageous because it prevents conversion of ammonium ions (NH<sub>4</sub><sup>+</sup>) to toxic (to aquatic animals) ammonia (NH<sub>3</sub>) gas. Transparency (Secchi disk depth) increased to 1.74 m (5.7 ft) and turbidity decreased to 2.7 to 3.2 NTU.

Alkalinity (157 mg/L as CaCO<sub>3</sub>) and hardness (182 mg/L as CaCO<sub>3</sub>) were stable and elevated, as would be expected from most waters in central Arizona. The total dissolved solids (mineral) concentration decreased to 648 mg/L.

Midge fly density was low (240/m<sup>2</sup>) and should produce no issues to lakeside residents or visitors.

Maximum waterfowl density was 2.5 birds per acre which is considered ‘excellent’ (Arizona Game & Fish Department rating system). No cormorants were noted.

Bio-available nitrogen concentration was 0.16 mg/L. Total nitrogen increased to 0.97 mg/L. Phosphorus concentration was unchanged at 0.015 mg/L; a very low value. Ammonia concentration was 0.09 mg/L. At ambient temperature and pH, no ammonia toxicity issues would result.

Chlorophyll concentration, indicative of algal biomass, decreased slightly to 1.64 ug/L. Algae density decreased slightly to 1.06 x 10<sup>3</sup> cells/mL. *Chroomonas* (Cryptophyta) was the dominant form. The alga rarely causes problems. No potentially-toxic golden algae (*Prymnesium parvum* or related species) were found. *P. parvum* can produce a toxin that destroys exposed cells in the gill tissue of fish, causing asphyxiation and death. No submerged weeds were observed, including horned pondweed (*Zannichellia palustris*) and brittle naiad (*Najas marina*) that have been problematic in other lakes in the past.

The mean TSI value was 44 (range 35-52), retaining the lake in the mesotrophic category. Mesotrophic lakes are desirable for an urban lake in terms of aesthetics, but are less supportive of a robust fishery.

The *E. coli* concentration was 8 MPN/100 mL and met the full body contact (swimming) and partial body contact (fishing and boating) recreation standards. The number of birds observed on the lake would have been the biggest contributor to this number.

The Lake Report Card value for March 2025 was 52, a one point increase compared to September 2024 data and maintaining the lake in the “excellent” category.

### **Lake 3**

Lake temperature range was 16.9-18.5 C (62-65 F). Water pH was 8.2-8.6 SU. . Low pH is more advantageous because it prevents conversion of ammonium ions ( $\text{NH}_4^+$ ) to toxic (to aquatic animals) ammonia ( $\text{NH}_3$ ) gas. Lake 3 exhibited no thermal stratification (vertically mixed) and had no significant loss of oxygen in the deep waters (see attached profiles). The surface dissolved oxygen concentration (8.0-10.9 mg/L) met the minimum target of 6.0 mg/L desired to protect the fishery. No fish stress was observed. Transparency improved and was 1.69 m (5.5 ft). Turbidity was stable, ranging from 3.6 to 4.0 NTU. Fountains were operating throughout the reporting period.

Waterfowl density was 1.5 to 4 birds per acre which is considered good (Arizona Game & Fish Department rating system). No cormorants were observed.

Midge fly density was low (120/m<sup>2</sup>) and should not produce nuisances to lakeside residents or visitors.

Alkalinity (150 mg/L as  $\text{CaCO}_3$ ) and hardness (178 mg/L as  $\text{CaCO}_3$ ) were stable and remained slightly elevated as typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake decreased to 632 mg/L.

Bio-available nitrogen concentration decreased to 0.22 mg/L, but total nitrogen increased to 0.93 mg/L. Phosphorus concentration was unchanged at 0.015 mg/L. The ammonia concentration was 0.09 mg/L and would not create any toxicity issues at ambient temperature and pH.

Chlorophyll concentration, indicative of algal biomass, decreased to 0.91 ug/L. Algae density decreased to  $4.50 \times 10^2$  cells/mL. The dominant alga was *Chroomonas*. No significant issues with the alga or other surface algae occurred. Golden algae (*Prymnesium parvum* and related species) were not found during the reporting period.

The mean TSI value decreased three (3) units to 45 (range 30-61), with the lake remaining in the mesotrophic category.

The *E. coli* concentration was 3 MPN/100 mL and met partial and full body contact (swimming) recreation limits.

The Lake Report Card value for March 2025 was 51, a one-unit increase compared to the September 2024 value and maintaining the lake in the “excellent” category. Low phosphorus and chlorophyll concentration greatly impacted the score.

#### **Lake 4**

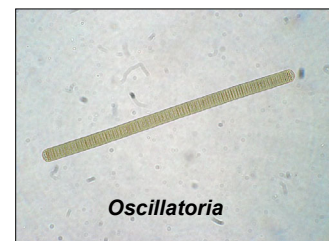
Lake 4 was vertically mixed with little loss of oxygen in the deep water (see attached profiles). Temperature ranged from 16.7 to 18.1 C (62-65 F). The dissolved oxygen concentrations improved to 7.8-9.8 mg/L. Concentrations were at the satisfactory level for the fishery and fish activity appeared normal. Water pH ranged from 8.5-8.6 SU and indicated a moderate suspended algae density. Water transparency increased to 0.95 m (3.1 ft). Turbidity was moderate at 7.8 to 8.4 NTU.

Waterfowl density was 2.3 to 4.8 birds per acre which is considered fair to excellent (Arizona Game & Fish Department rating system). No cormorants were noted. Midge fly density was quite low (80/m<sup>2</sup>) and should produce no issues to lakeside residents or visitors.

Alkalinity (153 mg/L as CaCO<sub>3</sub>) and hardness (190 mg/L as CaCO<sub>3</sub>) were stable and remained slightly elevated as typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake increased to 692 mg/L.

Bio-available nitrogen concentration decreased to 0.22 mg/L, but total nitrogen increased to 0.93 mg/L. Nitrogen concentrations increased to 0.33 mg/L bio-available nitrogen and 0.86 mg/L total nitrogen. Phosphorus concentration increased slightly to 0.023 mg/L. The ammonia concentration was low (0.07 mg/L). At ambient pH and temperature, acute or chronic ammonia toxicity to fish would not occur.

Algae density was very stable at 1.77 x 10<sup>3</sup> cells/mL; a low density. The dominant alga was *Oscillatoria*, blue-green (Cyanophyta) filament. This alga can cause issues in the lake, such as stringers and floating mats. However, the low density prevented such occurrences. The chlorophyll-a concentration (biomass indicator) decreased to 1.34 ug/L. The potentially toxic golden alga (*Prymnesium parvum*) was not present during the month.



The mean TSI value was 48 (range 33-61), moving the lake back into the mesotrophic category. The value indicates the lake should be more desirable in terms of aesthetics, but less supportive of a robust fishery.

The *E. coli* concentration was 4 MPN/100 mL. The measurements met the bacteria maximum limit for full body contact (swimming) and partial body contact (fishing and boating) recreation.

The Lake Report Card value for March 2025 was 47, a two unit decrease in score, and placing the lake in the “good” category.

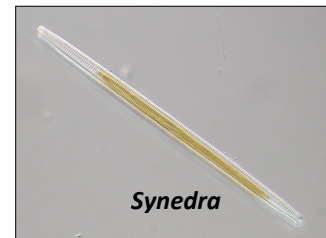
### **Lake 5**

Lake temperature ranged from 16.7-17.8 C (62-64 F) during the month. Water pH was 8.1-8.3 SU, indicative of a low to moderate algal density. Dissolved oxygen (6.9-9.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 2.8-5.4 NTU and indicating reasonably clear water.

Waterfowl density was 3.5-4.5 birds per acre; fair to good by the AZG&F ranking system. Few cormorants were observed.

Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth or submerged weeds were observed. The dominant alga was *Synedra*, a diatom. The total cell density was low. No golden algae (*Prymnesium parvum* or related species) were detected.



### **Lake 6**

The temperature of Lake 6 ranged from 16.9-18.7C (62-66 F) during the reporting period. Water pH ranged from 8.1 to 8.5 SU, indicating low to moderate algae density. Dissolved oxygen (9.5-9.7 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 6.2-6.6 NTU during the month and transparency was less than one meter. Data indicate increased algal growth.

Waterfowl density was approximately 7.5-16 birds per acre which is considered poor. Cormorants were occasionally observed.

Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth (other than increased density) or submerged weeds were observed. The dominant alga was the filamentous diatom (Bacillariophyta), *Melosira*. The alga is rarely problematic and no issues occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.



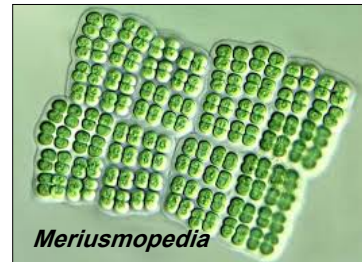
### **Lake 7**

Lake temperature ranged from 17.1-18.6 C (62-65 F). Water pH was 8.5-8.8 SU during the reporting period SU. Dissolved oxygen ranged from 8.7 to 9.7 mg/L and was

satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter, with turbidity of 2.7-4.4 NTU. Fountains were in operation.

Waterfowl density was about one bird per acre (~1/A); excellent according to the Arizona Game & Fish Department rating system. No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

The dominant suspended alga in the lake was *Merismopedia*. Density of the alga was moderate and no issues occurred. The colonial blue-green (Cyanophyta) alga did make the water turbid and produced some minor surface scum. Golden algae were not identified in the lake during the reporting period.



## **Lake 8**

Lake temperatures ranged from 16.6 to 17.7 C (62-64 F) during the month. Water pH was 8.3-8.4 SU. Dissolved oxygen concentrations were 7.1-8.2 mg/L and were satisfactory for the fishery. Fish activity appeared normal. Transparency was less than one meter and turbidity correspondingly measured 5.3 to 6.0 NTU. Aerators were not in operation.

Waterfowl density was variable; ranging from an average of 3.2 to 4.8 birds per acre. The rating would be considered fair to good based on the Arizona Game & Fish Department rating system. Cormorants were not observed.

Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No submerged weeds were observed. The phytoplankton was dominated by blue-green algae colonies of *Merismopedia*. The alga can make the water appear turbid and olive green in color. Golden algae were not observed during the reporting period.

## **Coming up:**

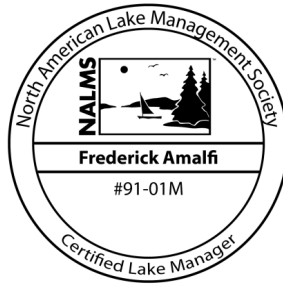
Lakes 5-8 are scheduled for comprehensive monitoring in April. All lakes will be visually inspected and field data collected two times during the month and checked for golden algae weekly during the peak season.

Respectfully:

**Aquatic Consulting & Testing, Inc.**



Frederick A. Amalfi, Ph.D., C.L.M.



## **SUPPORTING DOCUMENTATION**

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents

## DOBSON RANCH REPORT CARD

|                      |                      |               |             |             |           |           |           |           |           |
|----------------------|----------------------|---------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| DATE OF EVALUATION:  | <b>Mar-25</b>        | CONDITION     | <b>GOOD</b> | SCORE       | <b>52</b> | <b>52</b> | <b>51</b> | <b>47</b> |           |
| PREVIOUS EVALUATION: | <i>Last complete</i> | <b>Sep-24</b> | CONDITION   | <b>GOOD</b> | SCORE     | <b>50</b> | <b>51</b> | <b>52</b> | <b>49</b> |

| CONDITION                   | RATIONALE                                      | 4 pts                                     | 3 pts                                    | 2 pts   | 1 pt  | SCORE  | SCORE  | SCORE  | SCORE  |
|-----------------------------|--|---|--|---|---|--------|--------|--------|--------|
|                             |  | EXCELLENT                                 | GOOD                                     | FAIR  | POOR  | Lake 1 | Lake 2 | Lake 3 | Lake 4 |
| Transparency - SDz (m) avg. | aesthetics                                     | 1.5-2.0                                   | 1.0-1.4                                  | 0.5-0.9   | <0.5  | 4      | 4      | 4      | 2      |
| Dissolved oxygen (mg/L) @1m | aquatic life, sediment nutrient release, odors | >7.0                                      | 5.6-6.9                                  | 4.0-5.5   | <4.0  | 4      | 4      | 4      | 4      |
| Nitrogen, total (mg/L)      | algae and macrophyte growth                    | <0.5                                      | 0.5-1.0                                  | 1.0-2.0   | >2.0  | 3      | 3      | 3      | 3      |
| Phosphorus, total (mg/L)    | algae and macrophyte growth                    | <0.03                                     | 0.03-0.05                                | 0.06-0.10   | >0.10   | 4      | 4      | 4      | 4      |
| Turbidity (NTU) avg.        | aesthetics, State std                          | <5  | 5-10                                     | 11-20   | >20   | 4      | 4      | 3      | 3      |
| Chlorophyll-a (ug/L) avg.   | aesthetics, oxygen balance                     | <10                                       | 11-20                                    | 21-30   | >30   | 4      | 4      | 4      | 4      |
| Algae density (no./mL)      | aesthetics                                     | <5 x 10 <sup>4</sup>                      | 5x10 <sup>4</sup> - 9x10 <sup>4</sup>    | 1 x 10 <sup>5</sup> -5x 10 <sup>5</sup>           | >5 x 10 <sup>5</sup>                            | 4      | 4      | 4      | 4      |
| Midge larvae (# per sq m)   | aesthetics                                     | <200                                      | 200-400                                  | 500-800   | >800  | 3      | 3      | 4      | 4      |
| Algae form (dominant)       | aesthetics, treatability                       | greens; no floating mats                  | diatoms; no floating mats                | blue-greens; no floating mats                     | blue-greens; floating mats common               | 3      | 3      | 3      | 2      |
| pH (SU) avg.                | swimming, fishery, ammonia toxicity            | 6.5-8.0                                   | 8.1-8.5                                  | 8.6-9.0   | >9.0  | 3      | 3      | 2      | 2      |
| Carlson Trophic Status      | eutrophication                                 | <50                                       | 50-60                                    | 61-70   | >70   | 4      | 4      | 4      | 4      |
| Fishery                     | recreation, aesthetics                         | no fish piping; no fish kills             | some fish piping, gulping; no fish kills | fish piping before dawn; occasional fish kills    | fish piping common; fish kills common           | 4      | 4      | 4      | 4      |
| Waterfowl (per acre mean)   | Aesthetics, public health                      | <3  | 3-4                                      | 5-6   | >6  | 4      | 4      | 4      | 3      |
| Shoreline/banks             | Minimal Filamentous Algae                      | no evidence of salt crusts or algal scums | some white deposits and scums            | numerous patches of salt deposits and algae scums | most of lake shore covered with crusts or scums | 4      | 4      | 4      | 4      |

|                     |           |       |       |      |
|---------------------|-----------|-------|-------|------|
| <b>SCORING KEY:</b> | Excellent | Good  | Fair  | Poor |
|                     | 50-56     | 41-49 | 30-40 | <30  |

### Definitions: Ratings

Excellent: Lake aesthetic and operational conditions above level of expectation.

Good: Lake aesthetic and operational conditions at level of expectation.

Fair: Lake aesthetic and operational conditions slightly below level of expectation.

Poor: Lake aesthetic and operational conditions considerably below level of expectation.

*Definitions: Terms*

Benthos: Bottom dwelling organisms

Carlson Trophic Index: A series of calculations incorporating transparency, chlorophyll and phosphorus data used to provide a quantitative estimate of the degree of eutrophication in a lake.

Chlorophyll: Pigment in green plants involved in photosynthesis used to estimate the density of algae in the water column.

Coliform bacteria: Enteric bacteria used as an indicator of the sanitary condition of the water.

Eutrophication: Process by which lakes age by increasing in nutrient (nitrogen and phosphorus) content and plant life.

Fecal bacteria: Any of the bacteria types provided by the fecal matter of warm-blooded organisms.

Macrophyte: Large plant, observable without the aid of a microscope, that may be floating, submerged or emergent.

Midge: Small, flying, non-biting "gnat-like" insect whose larval stage exists in the lake sediments (bloodworm).

N/A: not applicable; insufficient data or too early in development of lake (an arbitrary 3 rating is provided for these items).

pH: -log hydrogen ion conc.; amount of acid in the water identified on scale 1-14; 1 being most acid, 7 neutral, and 14 being most caustic.

Phytoplankton (algae): Microscopic plant fraction of the plankton community.

Piping: Act of fish coming to surface of water and capturing a bubble of air in their mouth; a sign of low oxygen concentrations.

Plankton: Organisms of relatively small size that have relatively small powers of locomotion or that drift in the water.

Sedimentation: Rate at which solids accumulate on the lake bottom.

Transparency (SDz): Depth to which a standard disk can be observed in the water column.

Turbidity: Degree to which particles and color in the water scatter light; the "cloudiness" of the water.

Zooplankton: Animal fraction of the plankton community

CLIENT: DOBSON RANCH

DATE: 06-Mar-25

|                          | LAKE | LAKE | LAKE | LAKE |         |  |  |
|--------------------------|------|------|------|------|---------|--|--|
| PARAMETER                | 1    | 2    | 3    | 4    |         |  |  |
| Secchi Disk Depth (m)    | 1.85 | 1.73 | 0.94 | 0.94 |         |  |  |
| Phosphorus, total (ug/L) | 15   | 15   | 15   | 23   |         |  |  |
| Chlorophyll-a (ug/L)     | 1.1  | 1.6  | 0.9  | 1.3  |         |  |  |
|                          | LAKE | LAKE | LAKE | LAKE |         |  |  |
| TSI VALUES               | 1    | 2    | 3    | 4    |         |  |  |
| Secchi Disk Depth        | 51   | 52   | 61   | 61   |         |  |  |
| Phosphorus, total        | 43   | 43   | 43   | 49   |         |  |  |
| Chlorophyll-a            | 31   | 35   | 30   | 33   |         |  |  |
|                          |      |      |      |      | average |  |  |
| AVERAGE                  | 42   | 44   | 45   | 48   | 44      |  |  |

SYNOPSIS OF TROPHIC STATUS RESULTS:

Carlson Trophic Status Index (TSI): The classical interpretation of various Index value ranges is provided below:

- TSI<30                    **Classic Oligotrophic**; clear water, oxygenated hypolimnion throughout the year; suitable for cold water fishery in deep lakes.
- TSI 30-40                **Oligotrophic**; shallow lakes may exhibit anoxic hypolimnion in summer.
- TSI 41-50                **Mesotrophic**; moderately clear water, increasing chance of anoxia in hypolimnion during the summer.
- TSI 51-60                **Slightly Eutrophic**; decreased transparency, anoxia in hypolimnion during the summer expected, macrophyte problems possible, warm water fishery only.
- TSI 61-70                **Eutrophic**; dominance of blue-green algae and algal scums probable, can have extensive macrophyte problems.
- TSI 70-80                **Highly Eutrophic**; heavy algal blooms, dense macrophyte beds possible, limited light penetration.
- TSI>80                    **Hypereutrophic**; algal scums, summertime fish kills, limited light penetration, few macrophytes.

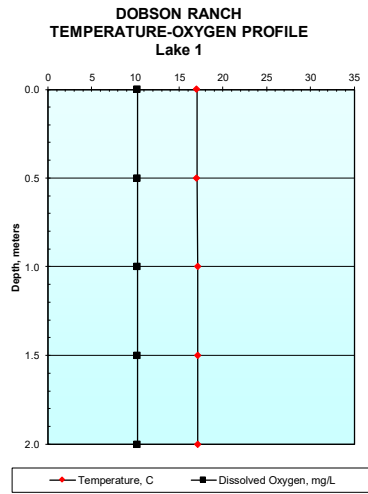
Aquatic Consulting & Testing, Inc.

**Field Data for 03-06-25 Sampling Event**

Aquatic Consulting & Testing, Inc.

**DOBSON RANCH LAKE 1**

| Depth_m | Temp_C | Oxygen_mg/L |
|---------|--------|-------------|
| 0.0     | 17.0   | 10.2        |
| 0.5     | 17.0   | 10.2        |
| 1.0     | 17.1   | 10.2        |
| 1.5     | 17.1   | 10.2        |
| 2.0     | 17.1   | 10.2        |

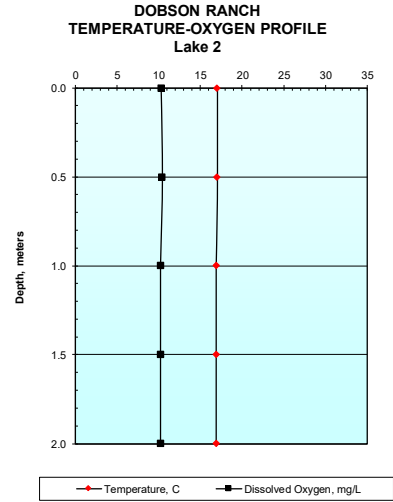


**Field Data for 03-06-25 Sampling Event**

Aquatic Consulting & Testing, Inc.

**DOBSON RANCH LAKE 2**

| Depth_m | Temp_C | Oxygen_mg/L |
|---------|--------|-------------|
| 0.0     | 17.0   | 10.3        |
| 0.5     | 17.0   | 10.4        |
| 1.0     | 16.9   | 10.2        |
| 1.5     | 16.9   | 10.2        |
| 2.0     | 16.9   | 10.2        |

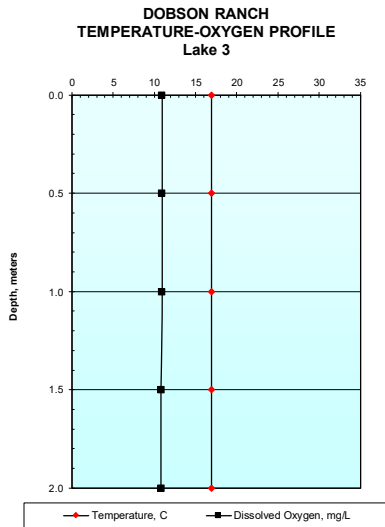


**Field Data for 03-06-25 Sampling Event**

Aquatic Consulting & Testing, Inc.

**DOBSON RANCH LAKE 3**

| Depth_m | Temp_C | Oxygen_mg/L |
|---------|--------|-------------|
| 0.0     | 16.9   | 10.9        |
| 0.5     | 16.9   | 10.9        |
| 1.0     | 16.9   | 10.9        |
| 1.5     | 16.9   | 10.8        |
| 2.0     | 16.9   | 10.8        |

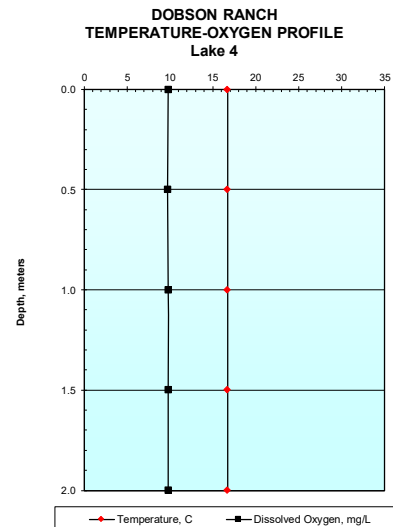


**Field Data for 03-06-25 Sampling Event**

Aquatic Consulting & Testing, Inc.

**DOBSON RANCH LAKE 4**

| Depth_m | Temp_C | Oxygen_mg/L |
|---------|--------|-------------|
| 0.0     | 16.7   | 9.8         |
| 0.5     | 16.7   | 9.7         |
| 1.0     | 16.7   | 9.8         |
| 1.5     | 16.7   | 9.8         |
| 2.0     | 16.7   | 9.8         |





# AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106  
P.O. Box 1510  
Tempe, Arizona 85281  
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

## LABORATORY REPORT

**Client:** Dobson Ranch Association  
2719 South Reyes Road  
Mesa, AZ 85202

**Date Submitted:** 03/06/25  
**Date Reported:** 04/07/25

**Attn:** Fran Pawlak, Executive Director

**Project:** Monthly Lake 1-4 Monitoring

## RESULTS

**Client ID:** Lake 1  
**ACT Lab No.:** CH01250

**Sample Type:** Surface Water  
**Sample Time:** 03/06/25 08:00

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u>   |
|-------------------------|----------------------|------------|-------------------|---------------|---------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |               |
| Algae Count             | 03/25/25             | 03/25/25   | SM 10200 F        | See Attached  | cells/mL      |
| Algae Identification    | 03/25/25             | 03/25/25   |                   | See Attached  |               |
| Chl/Pheo Ratio          | 03/31/25             | 04/01/25   | SM10200 H         | 1.50          |               |
| Chlorophyll a           | 03/31/25             | 04/01/25   | SM10200 H         | 1.07          | ug/L          |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs      |
| Midge count             | 03/06/25             | 03/06/25   | SM10500 C         | 280           | #/sq. meter   |
| Pheophytin a            | 03/31/25             | 04/01/25   | SM10200 H         | 0.43          | ug/L          |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 10.2          | mg/L as O2    |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.4           | SU            |
| Secchi Disk Depth       | 03/06/25             | 03/06/25   | NALMS             | 1.85          | meters        |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 17.0          | C             |
| Alkalinity, Total       | 03/11/25             | 03/11/25   | SM 2320 B         | 161           | mg/L as CaCO3 |
| Ammonia - N             | 03/15/25             | 03/15/25   | SM4500NH3 D       | 0.11          | mg/L as N     |
| Nitrate + Nitrite - N   | 04/02/25             | 04/02/25   | SM4500NO3 E       | 0.06          | mg/L as N     |
| Phosphorus, Total       | 03/17/25             | 03/18/25   | 365.3             | 0.015         | mg/L as P     |
| Total Hardness          | 03/11/25             | 03/11/25   | SM2340C           | 186           | mg/L as CaCO3 |
| Total Kjeldahl Nitrogen | 03/21/25             | 03/22/25   | SMNorg C,NH3 C/D  | 0.8           | mg/L as N     |
| E. coli, Colilert       | 03/06/25             | 03/07/25   | SM 9223 B         | <1            | MPN/100 mL    |
| Total Dissolved Solids  | 03/11/25             | 03/13/25   | SM2540 C          | 652           | mg/L          |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 3.1           | NTU           |

## RESULTS

**Client ID:** Lake 2  
**ACT Lab No.:** CH01251

**Sample Type:** Surface Water  
**Sample Time:** 03/06/25 08:30

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u>   |
|-------------------------|----------------------|------------|-------------------|---------------|---------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |               |
| Algae Count             | 03/25/25             | 03/25/25   | SM 10200 F        | See Attached  | cells/mL      |
| Algae Identification    | 03/25/25             | 03/25/25   |                   | See Attached  |               |
| Chl/Pheo Ratio          | 03/31/25             | 04/01/25   | SM10200 H         | 1.53          |               |
| Chlorophyll a           | 03/31/25             | 04/01/25   | SM10200 H         | 1.64          | ug/L          |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs      |
| Midge count             | 03/06/25             | 03/06/25   | SM10500 C         | 240           | #/sq. meter   |
| Pheophytin a            | 03/31/25             | 04/01/25   | SM10200 H         | 0.51          | ug/L          |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 10.8          | mg/L as O2    |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.4           | SU            |
| Secchi Disk Depth       | 03/06/25             | 03/06/25   | NALMS             | 1.73          | meters        |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 17.0          | C             |
| Alkalinity, Total       | 03/11/25             | 03/11/25   | SM 2320 B         | 157           | mg/L as CaCO3 |
| Ammonia - N             | 03/15/25             | 03/15/25   | SM4500NH3 D       | 0.09          | mg/L as N     |
| Nitrate + Nitrite - N   | 04/02/25             | 04/02/25   | SM4500NO3 E       | 0.07          | mg/L as N     |
| Phosphorus, Total       | 03/17/25             | 03/18/25   | 365.3             | 0.015         | mg/L as P     |
| Total Hardness          | 03/11/25             | 03/11/25   | SM2340C           | 182           | mg/L as CaCO3 |
| Total Kjeldahl Nitrogen | 03/21/25             | 03/22/25   | SMNorg C,NH3 C/D  | 0.9           | mg/L as N     |
| E. coli, Colilert       | 03/06/25             | 03/07/25   | SM 9223 B         | 8             | MPN/100 mL    |
| Total Dissolved Solids  | 03/11/25             | 03/13/25   | SM2540 C          | 648           | mg/L          |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 2.7           | NTU           |

## RESULTS

**Client ID:** Lake 3  
**ACT Lab No.:** CH01252

**Sample Type:** Surface Water  
**Sample Time:** 03/06/25 09:00

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u>   |
|-------------------------|----------------------|------------|-------------------|---------------|---------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |               |
| Algae Count             | 03/25/25             | 03/25/25   | SM 10200 F        | See Attached  | cells/mL      |
| Algae Identification    | 03/25/25             | 03/25/25   |                   | See Attached  |               |
| Chl/Pheo Ratio          | 03/31/25             | 04/01/25   | SM10200 H         | 1.44          |               |
| Chlorophyll a           | 03/31/25             | 04/01/25   | SM10200 H         | 0.91          | ug/L          |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs      |
| Midge count             | 03/06/25             | 03/06/25   | SM10500 C         | 120           | #/sq. meter   |
| Pheophytin a            | 03/31/25             | 04/01/25   | SM10200 H         | 0.52          | ug/L          |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 10.9          | mg/L as O2    |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.6           | SU            |
| Secchi Disk Depth       | 03/06/25             | 03/06/25   | NALMS             | 1.68          | meters        |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 16.9          | C             |
| Alkalinity, Total       | 03/11/25             | 03/11/25   | SM 2320 B         | 150           | mg/L as CaCO3 |
| Ammonia - N             | 03/15/25             | 03/15/25   | SM4500NH3 D       | 0.09          | mg/L as N     |
| Nitrate + Nitrite - N   | 04/02/25             | 04/02/25   | SM4500NO3 E       | 0.13          | mg/L as N     |
| Phosphorus, Total       | 03/17/25             | 03/18/25   | 365.3             | 0.015         | mg/L as P     |
| Total Hardness          | 03/11/25             | 03/11/25   | SM2340C           | 178           | mg/L as CaCO3 |
| Total Kjeldahl Nitrogen | 03/21/25             | 03/22/25   | SMNorg C,NH3 C/D  | 0.8           | mg/L as N     |
| E. coli, Colilert       | 03/06/25             | 03/07/25   | SM 9223 B         | 3             | MPN/100 mL    |
| Total Dissolved Solids  | 03/17/25             | 03/13/25   | SM2540 C          | 632           | mg/L          |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 9.0           | NTU           |

## RESULTS

**Client ID:** Lake 4  
**ACT Lab No.:** CH01253

**Sample Type:** Surface Water  
**Sample Time:** 03/06/25 09:45

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u>   |
|-------------------------|----------------------|------------|-------------------|---------------|---------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |               |
| Algae Count             | 03/25/25             | 03/25/25   | SM 10200 F        | See Attached  | cells/mL      |
| Algae Identification    | 03/25/25             | 03/25/25   |                   | See Attached  |               |
| Chl/Pheo Ratio          | 03/31/25             | 04/01/25   | SM10200 H         | 1.36          |               |
| Chlorophyll a           | 03/31/25             | 04/01/25   | SM10200 H         | 1.34          | ug/L          |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs      |
| Midge count             | 03/06/25             | 03/06/25   | SM10500 C         | 80            | #/sq. meter   |
| Pheophytin a            | 03/31/25             | 04/01/25   | SM10200 H         | 1.28          | ug/L          |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 9.8           | mg/L as O2    |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.6           | SU            |
| Secchi Disk Depth       | 03/06/25             | 03/06/25   | NALMS             | 0.94          | meters        |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 16.7          | C             |
| Alkalinity, Total       | 03/11/25             | 03/11/25   | SM 2320 B         | 153           | mg/L as CaCO3 |
| Ammonia - N             | 03/15/25             | 03/15/25   | SM4500NH3 D       | 0.07          | mg/L as N     |
| Nitrate + Nitrite - N   | 04/02/25             | 04/02/25   | SM4500NO3 E       | 0.26          | mg/L as N     |
| Phosphorus, Total       | 03/17/25             | 03/18/25   | 365.3             | 0.023         | mg/L as P     |
| Total Hardness          | 03/11/25             | 03/11/25   | SM2340C           | 190           | mg/L as CaCO3 |
| Total Kjeldahl Nitrogen | 03/21/25             | 03/22/25   | SMNorg C,NH3 C/D  | 0.6           | mg/L as N     |
| E. coli, Colilert       | 03/06/25             | 03/07/25   | SM 9223 B         | 4             | MPN/100 mL    |
| Total Dissolved Solids  | 03/11/25             | 03/13/25   | SM2540 C          | 692           | mg/L          |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 8.4           | NTU           |

**Client ID:** Lake 5  
**ACT Lab No.:** CH01254

**Sample Type:** Surface Water  
**Sample Time:** 03/06/25 07:20

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|-------------------------|----------------------|------------|-------------------|---------------|-------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 9.2           | mg/L as O2  |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.3           | SU          |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 16.7          | C           |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 2.8           | NTU         |

## RESULTS

Client ID: Lake 6  
ACT Lab No.: CH01255

Sample Type: Surface Water  
Sample Time: 03/06/25 07:30

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|-------------------------|----------------------|------------|-------------------|---------------|-------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 9.5           | mg/L as O2  |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.5           | SU          |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 16.9          | C           |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 6.2           | NTU         |

Client ID: Lake 7  
ACT Lab No.: CH01256

Sample Type: Surface Water  
Sample Time: 03/06/25 07:40

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|-------------------------|----------------------|------------|-------------------|---------------|-------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 9.7           | mg/L as O2  |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.5           | SU          |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 17.1          | C           |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 4.4           | NTU         |

Client ID: Lake 8  
ACT Lab No.: CH01257

Sample Type: Surface Water  
Sample Time: 03/06/25 07:50

| <u>Parameter</u>        | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|-------------------------|----------------------|------------|-------------------|---------------|-------------|
|                         | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae            | 03/06/25             | 03/06/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Oxygen, Dissolved Field | 03/06/25             | 03/06/25   | SM4500 O G        | 8.2           | mg/L as O2  |
| pH, Field               | 03/06/25             | 03/06/25   | SM4500H+ B        | 8.3           | SU          |
| Temperature, Field      | 03/06/25             | 03/06/25   | SM2550 B          | 16.6          | C           |
| Phosphorus, Total       | 03/17/25             | 03/18/25   | 365.3             | 0.035         | mg/L as P   |
| E. coli, Collilert      | 03/06/25             | 03/07/25   | SM 9223 B         | 15            | MPN/100 mL  |
| Turbidity               | 03/06/25             | 03/06/25   | 180.1             | 6.0           | NTU         |

**RESULTS**

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Reviewed by:



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**Frederick A. Amalfi, Ph.D.**  
**Laboratory Director**

## ALGAE IDENTIFICATION

|              |          |                |          |
|--------------|----------|----------------|----------|
| AC&T Lab No. | CH-01250 | Date Collected | 03/06/25 |
| Client I.D.  | Lake 1   | Collected By   | AC&T     |

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta  
Forms: u=unicell; c=colony; f=filament; g=flagellate

| Genus                         | Div.-<br>Form | Rel.<br>Count | Total<br>per mL | Comp.  | Genus                      | Div.-<br>Form | Rel.<br>Count | Total<br>per mL | Comp   |
|-------------------------------|---------------|---------------|-----------------|--------|----------------------------|---------------|---------------|-----------------|--------|
| <i>Achnanthes</i>             | bac-u         |               |                 |        | <i>Microcystis</i>         | cyn-c         |               |                 |        |
| <i>Anabaena</i>               | cyn-f         |               |                 |        | <i>Microspora</i>          | chl-f         |               |                 |        |
| <i>Ankistrodesmus</i>         | chl-u         |               |                 |        | <i>Nanochloris</i>         | chl-u         |               |                 |        |
| <i>Aphanothece</i>            | cyn-c         |               |                 |        | <b><i>Navicula</i></b>     | bac-u         | 10            | 230             | 21.74% |
| <i>Asterionella</i>           | bac-c         |               |                 |        | <i>Nitzschia</i>           | bac-u         |               |                 |        |
| <i>Botryococcus</i>           | chl-c         |               |                 |        | <i>Oocystis</i>            | chl-c         |               |                 |        |
| <b><i>Caloneis</i></b>        | cry-u         | 1             | 23              | 2.17%  | <b><i>Oscillatoria</i></b> | cyn-f         | 5             | 115             | 10.87% |
| <i>Cephalomonas</i>           | chl-ug        |               |                 |        | <i>Pandorina</i>           | chl-cg        |               |                 |        |
| <i>Chaetoceros</i>            | bac-f         |               |                 |        | <i>Pediastrum</i>          | chl-c         |               |                 |        |
| <i>Chlamydomonas</i>          | chl-ug        |               |                 |        | <i>Peridinium</i>          | pyr-ug        |               |                 |        |
| <b><i>Chlorella</i></b>       | chl-u         | 1             | 23              | 2.17%  | <i>Phacotus</i>            | chl-ug        |               |                 |        |
| <i>Chlorogonium</i>           | chl-ug        |               |                 |        | <i>Phacus</i>              | chl-ug        |               |                 |        |
| <i>Chodatella</i>             | chl-u         |               |                 |        | <i>Pinnularia</i>          | bac-u         |               |                 |        |
| <b><i>Chroomonas</i></b>      | crp-ug        | 19            | 437             | 41.30% | <i>Pithophora</i>          | chl-f         |               |                 |        |
| <i>Chroococcus</i>            | cyn-c         |               |                 |        | <i>Planktosphaeria</i>     | chl-c         |               |                 |        |
| <i>Cocconeis</i>              | bac-u         |               |                 |        | <i>Rhizoclonium</i>        | chl-f         |               |                 |        |
| <i>Coelastrum</i>             | chl-c         |               |                 |        | <i>Rhoicosphenia</i>       | bac-u         |               |                 |        |
| <i>Cosmarium</i>              | chl-u         |               |                 |        | <i>Rhopalodia</i>          | bac-u         |               |                 |        |
| <i>Cosmocladium</i>           | chl-c         |               |                 |        | <i>Scenedesmus</i>         | chl-c         |               |                 |        |
| <i>Crucigenia</i>             | chl-c         |               |                 |        | <i>Schroederia</i>         | chl-u         |               |                 |        |
| <b><i>Cryptomonas</i></b>     | crp-ug        | 1             | 23              | 2.17%  | <i>Selanastrum</i>         | chl-u         |               |                 |        |
| <b><i>Cyclotella</i></b>      | bac-u         | 4             | 92              | 8.70%  | <i>Sphaerocystis</i>       | chl-c         |               |                 |        |
| <i>Cymbella</i>               | bac-u         |               |                 |        | <i>Spondylumorum</i>       | chl-c         |               |                 |        |
| <b><i>Denticula</i></b>       | bac-u         | 1             | 23              | 2.17%  | <i>Spirulina</i>           | cyn-f         |               |                 |        |
| <i>Diatoma</i>                | bac-u         |               |                 |        | <i>Staurastrum</i>         | chl-u         |               |                 |        |
| <b><i>Dysmorphococcus</i></b> | chl-ug        | 1             | 23              | 2.17%  | <i>Stephanodiscus</i>      | bac-u         |               |                 |        |
| <i>Eremosphaeria</i>          | chl-u         |               |                 |        | <i>Stigeoclonium</i>       | chl-f         |               |                 |        |
| <i>Euastrum</i>               | chl-u         |               |                 |        | <i>Surirella</i>           | bac-u         |               |                 |        |
| <i>Fragilaria</i>             | bac-u         |               |                 |        | <i>Synechococcus</i>       | cyn-u         |               |                 |        |
| <i>Frustulia</i>              | bac-u         |               |                 |        | <i>Synechocystis</i>       | cyn-c         |               |                 |        |
| <i>Glenodinium</i>            | pyr-ug        |               |                 |        | <b><i>Synedra</i></b>      | bac-u         | 3             | 69              | 6.52%  |
| <i>Golenkinia</i>             | chl-c         |               |                 |        | <i>Synura</i>              | cry-cg        |               |                 |        |
| <i>Gomphonema</i>             | bac-u         |               |                 |        | <i>Tetraedron</i>          | chl-u         |               |                 |        |
| <i>Gonium</i>                 | chl-cg        |               |                 |        | <i>Thoracomonas</i>        | chl-u         |               |                 |        |
| <i>Gonyaulax</i>              | pyr-ug        |               |                 |        | <i>Trachelomonas</i>       | eug-ug        |               |                 |        |
| <i>Gymnodinium</i>            | bac-u         |               |                 |        | <i>Vaucheria</i>           | chl-f         |               |                 |        |
| <i>Holopedium</i>             | cyn-u         |               |                 |        | <i>Volvox</i>              | chl-cg        |               |                 |        |
| <i>Lyngbya</i>                | cyn-f         |               |                 |        | <i>Zygnema</i>             | chl-f         |               |                 |        |
| <i>Mastogloia</i>             | bac-u         |               |                 |        |                            |               |               |                 |        |
| <i>Meridion</i>               | bac-u         |               |                 |        |                            |               |               |                 |        |
| <i>Merismopedia</i>           | cyn-c         |               |                 |        |                            |               |               |                 |        |

check 100.00%

Aquatic Consulting & Testing, Inc.  
1525 W. University Dr., Suite 106  
Tempe, Arizona 85281

Count (cells/mL) 1.06E+03

## ALGAE IDENTIFICATION

|              |          |                |          |
|--------------|----------|----------------|----------|
| AC&T Lab No. | CH-01251 | Date Collected | 03/06/25 |
| Client I.D.  | Lake 2   | Collected By   | AC&T     |

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta  
Forms: u=unicell; c=colony; f=filament; g= flagellate

| Genus                  | Div.-<br>Form | Rel.<br>Count | Total<br>per mL | Comp.  | Genus                  | Div.-<br>Form | Rel.<br>Count | Total<br>per mL. | Comp  |
|------------------------|---------------|---------------|-----------------|--------|------------------------|---------------|---------------|------------------|-------|
| <i>Achnanthes</i>      | bac-u         |               |                 |        | <i>Microcystis</i>     | cyn-c         |               |                  |       |
| <i>Anabaena</i>        | cyn-f         |               |                 |        | <i>Microspora</i>      | chl-f         |               |                  |       |
| <i>Ankistrodesmus</i>  | chl-u         |               |                 |        | <i>Nanochloris</i>     | chl-u         |               |                  |       |
| <i>Aphanothece</i>     | cyn-c         |               |                 |        | <b>Navicula</b>        | bac-u         | 2             | 46               | 4.35% |
| <i>Asterionella</i>    | bac-c         |               |                 |        | <i>Nitzschia</i>       | bac-u         |               |                  |       |
| <i>Botryococcus</i>    | chl-c         |               |                 |        | <i>Oocystis</i>        | chl-c         |               |                  |       |
| <i>Carteria</i>        | chl-ug        |               |                 |        | <i>Oscillatoria</i>    | cyn-f         |               |                  |       |
| <i>Cephalomonas</i>    | chl-ug        |               |                 |        | <i>Pandorina</i>       | chl-cg        |               |                  |       |
| <i>Chaetoceros</i>     | bac-f         |               |                 |        | <i>Pediastrum</i>      | chl-c         |               |                  |       |
| <i>Chlamydomonas</i>   | chl-ug        |               |                 |        | <i>Peridinium</i>      | pyr-ug        |               |                  |       |
| <b>Chlorella</b>       | chl-u         | 1             | 23              | 2.17%  | <i>Phacotus</i>        | chl-ug        |               |                  |       |
| <i>Chlorogonium</i>    | chl-ug        |               |                 |        | <i>Phacus</i>          | chl-ug        |               |                  |       |
| <i>Chodatella</i>      | chl-u         |               |                 |        | <i>Pinnularia</i>      | bac-u         |               |                  |       |
| <b>Chroomonas</b>      | crp-ug        | 40            | 921             | 86.96% | <i>Pithophora</i>      | chl-f         |               |                  |       |
| <i>Chroococcus</i>     | cyn-c         |               |                 |        | <i>Planktosphaeria</i> | chl-c         |               |                  |       |
| <i>Cocconeis</i>       | bac-u         |               |                 |        | <i>Rhizoclonium</i>    | chl-f         |               |                  |       |
| <i>Coelastrum</i>      | chl-c         |               |                 |        | <i>Rhoicosphenia</i>   | bac-u         |               |                  |       |
| <i>Cosmarium</i>       | chl-u         |               |                 |        | <i>Rhopalodia</i>      | bac-u         |               |                  |       |
| <i>Cosmocladium</i>    | chl-c         |               |                 |        | <b>Scenedesmus</b>     | chl-c         | 2             | 46               | 4.35% |
| <i>Crucigenia</i>      | chl-c         |               |                 |        | <i>Schroederia</i>     | chl-u         |               |                  |       |
| <i>Cryptomonas</i>     | crp-ug        |               |                 |        | <i>Selanastrum</i>     | chl-u         |               |                  |       |
| <i>Cyclotella</i>      | bac-u         |               |                 |        | <i>Sphaerocystis</i>   | chl-c         |               |                  |       |
| <i>Cymbella</i>        | bac-u         |               |                 |        | <i>Spondylumorum</i>   | chl-c         |               |                  |       |
| <i>Denticula</i>       | bac-u         |               |                 |        | <i>Spirulina</i>       | cyn-f         |               |                  |       |
| <b>Diatoma</b>         | bac-u         | 1             | 23              | 2.17%  | <i>Staurastrum</i>     | chl-u         |               |                  |       |
| <i>Dysmorphococcus</i> | chl-ug        |               |                 |        | <i>Stephanodiscus</i>  | bac-u         |               |                  |       |
| <i>Eremosphaeria</i>   | chl-u         |               |                 |        | <i>Stigeoclonium</i>   | chl-f         |               |                  |       |
| <i>Euastrum</i>        | chl-u         |               |                 |        | <i>Surirella</i>       | bac-u         |               |                  |       |
| <i>Fragilaria</i>      | bac-u         |               |                 |        | <i>Synechococcus</i>   | cyn-u         |               |                  |       |
| <i>Frustulia</i>       | bac-u         |               |                 |        | <i>Synechocystis</i>   | cyn-c         |               |                  |       |
| <i>Glenodinium</i>     | pyr-ug        |               |                 |        | <i>Synedra</i>         | bac-u         |               |                  |       |
| <i>Golenkinia</i>      | chl-c         |               |                 |        | <i>Synura</i>          | cry-cg        |               |                  |       |
| <i>Gomphonema</i>      | bac-u         |               |                 |        | <i>Tetraedron</i>      | chl-u         |               |                  |       |
| <i>Gonium</i>          | chl-cg        |               |                 |        | <i>Thoracomonas</i>    | chl-u         |               |                  |       |
| <i>Gonyaulax</i>       | pyr-ug        |               |                 |        | <i>Trachelomonas</i>   | eug-ug        |               |                  |       |
| <i>Gymnodinium</i>     | bac-u         |               |                 |        | <i>Vaucheria</i>       | chl-f         |               |                  |       |
| <i>Holopedium</i>      | cyn-u         |               |                 |        | <i>Volvox</i>          | chl-cg        |               |                  |       |
| <i>Lyngbya</i>         | cyn-f         |               |                 |        | <i>Zygnema</i>         | chl-f         |               |                  |       |
| <i>Mastogloia</i>      | bac-u         |               |                 |        |                        |               |               |                  |       |
| <i>Meridion</i>        | bac-u         |               |                 |        |                        |               |               |                  |       |
| <i>Merismopedia</i>    | cyn-c         |               |                 |        |                        |               |               |                  |       |

check 100.00%

Aquatic Consulting & Testing, Inc.  
1525 W. University Dr., Suite 106  
Tempe, Arizona 85281

Count (cells/mL) 1.06E+03

## ALGAE IDENTIFICATION

|              |          |                |          |
|--------------|----------|----------------|----------|
| AC&T Lab No. | CH-01252 | Date Collected | 03/06/25 |
| Client I.D.  | Lake 3   | Collected By   | AC&T     |

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta  
Forms: u=unicell; c=colony; f=filament; g= flagellate

| Genus                    | Div.-<br>Form | Rel.<br>Count | Total<br>per mL | Comp.  | Genus                  | Div.-<br>Form | Rel.<br>Count | Total<br>per mL. | Comp  |
|--------------------------|---------------|---------------|-----------------|--------|------------------------|---------------|---------------|------------------|-------|
| <i>Achnanthes</i>        | bac-u         |               |                 |        | <i>Microcystis</i>     | cyn-c         |               |                  |       |
| <i>Anabaena</i>          | cyn-f         |               |                 |        | <i>Microspora</i>      | chl-f         |               |                  |       |
| <i>Ankistrodesmus</i>    | chl-u         |               |                 |        | <i>Nanochloris</i>     | chl-u         |               |                  |       |
| <i>Aphanothece</i>       | cyn-c         |               |                 |        | <b><i>Navicula</i></b> | bac-u         | 1             | 20               | 4.55% |
| <i>Asterionella</i>      | bac-c         |               |                 |        | <i>Nitzschia</i>       | bac-u         |               |                  |       |
| <i>Botryococcus</i>      | chl-c         |               |                 |        | <i>Oocystis</i>        | chl-c         |               |                  |       |
| <i>Carteria</i>          | chl-ug        |               |                 |        | <i>Oscillatoria</i>    | cyn-f         |               |                  |       |
| <i>Cephalomonas</i>      | chl-ug        |               |                 |        | <i>Pandorina</i>       | chl-cg        |               |                  |       |
| <i>Chaetoceros</i>       | bac-f         |               |                 |        | <i>Pediastrum</i>      | chl-c         |               |                  |       |
| <i>Chlamydomonas</i>     | chl-ug        |               |                 |        | <i>Peridinium</i>      | pyr-ug        |               |                  |       |
| <i>Chlorella</i>         | chl-u         |               |                 |        | <i>Phacotus</i>        | chl-ug        |               |                  |       |
| <i>Chlorogonium</i>      | chl-ug        |               |                 |        | <i>Phacus</i>          | chl-ug        |               |                  |       |
| <i>Chodatella</i>        | chl-u         |               |                 |        | <i>Pinnularia</i>      | bac-u         |               |                  |       |
| <b><i>Chroomonas</i></b> | crp-ug        | 19            | 389             | 86.36% | <i>Pithophora</i>      | chl-f         |               |                  |       |
| <i>Chroococcus</i>       | cyn-c         |               |                 |        | <i>Planktosphaeria</i> | chl-c         |               |                  |       |
| <i>Cocconeis</i>         | bac-u         |               |                 |        | <i>Rhizoclonium</i>    | chl-f         |               |                  |       |
| <i>Coelastrum</i>        | chl-c         |               |                 |        | <i>Rhoicosphenia</i>   | bac-u         |               |                  |       |
| <i>Cosmarium</i>         | chl-u         |               |                 |        | <i>Rhopalodia</i>      | bac-u         |               |                  |       |
| <i>Cosmocladium</i>      | chl-c         |               |                 |        | <i>Scenedesmus</i>     | chl-c         |               |                  |       |
| <i>Crucigenia</i>        | chl-c         |               |                 |        | <i>Schroederia</i>     | chl-u         |               |                  |       |
| <i>Cryptomonas</i>       | crp-ug        |               |                 |        | <i>Selanastrum</i>     | chl-u         |               |                  |       |
| <i>Cyclotella</i>        | bac-u         |               |                 |        | <i>Sphaerocystis</i>   | chl-c         |               |                  |       |
| <i>Cymbella</i>          | bac-u         |               |                 |        | <i>Spondylumorum</i>   | chl-c         |               |                  |       |
| <b><i>Denticula</i></b>  | bac-u         | 1             | 20              | 4.55%  | <i>Spirulina</i>       | cyn-f         |               |                  |       |
| <b><i>Diatoma</i></b>    | bac-u         | 1             | 20              | 4.55%  | <i>Staurastrum</i>     | chl-u         |               |                  |       |
| <i>Dysmorphococcus</i>   | chl-ug        |               |                 |        | <i>Stephanodiscus</i>  | bac-u         |               |                  |       |
| <i>Eremosphaeria</i>     | chl-u         |               |                 |        | <i>Stigeoclonium</i>   | chl-f         |               |                  |       |
| <i>Euastrum</i>          | chl-u         |               |                 |        | <i>Surirella</i>       | bac-u         |               |                  |       |
| <i>Fragilaria</i>        | bac-u         |               |                 |        | <i>Synechococcus</i>   | cyn-u         |               |                  |       |
| <i>Frustulia</i>         | bac-u         |               |                 |        | <i>Synechocystis</i>   | cyn-c         |               |                  |       |
| <i>Glenodinium</i>       | pyr-ug        |               |                 |        | <i>Synedra</i>         | bac-u         |               |                  |       |
| <i>Golenkinia</i>        | chl-c         |               |                 |        | <i>Synura</i>          | cry-cg        |               |                  |       |
| <i>Gomphonema</i>        | bac-u         |               |                 |        | <i>Tetraedron</i>      | chl-u         |               |                  |       |
| <i>Gonium</i>            | chl-cg        |               |                 |        | <i>Thoracomonas</i>    | chl-u         |               |                  |       |
| <i>Gonyaulax</i>         | pyr-ug        |               |                 |        | <i>Trachelomonas</i>   | eug-ug        |               |                  |       |
| <i>Gymnodinium</i>       | bac-u         |               |                 |        | <i>Vaucheria</i>       | chl-f         |               |                  |       |
| <i>Holopedium</i>        | cyn-u         |               |                 |        | <i>Volvox</i>          | chl-cg        |               |                  |       |
| <i>Lyngbya</i>           | cyn-f         |               |                 |        | <i>Zygnema</i>         | chl-f         |               |                  |       |
| <i>Mastogloia</i>        | bac-u         |               |                 |        |                        |               |               |                  |       |
| <i>Meridion</i>          | bac-u         |               |                 |        |                        |               |               |                  |       |
| <i>Merismopedia</i>      | cyn-c         |               |                 |        |                        |               |               |                  |       |

check 100.00%

Aquatic Consulting & Testing, Inc.  
1525 W. University Dr., Suite 106  
Tempe, Arizona 85281

Count (cells/mL) 4.50E+02

## ALGAE IDENTIFICATION

|              |          |                |          |
|--------------|----------|----------------|----------|
| AC&T Lab No. | CH-01253 | Date Collected | 03/06/25 |
| Client I.D.  | Lake 4   | Collected By   | AC&T     |

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta  
Forms: u=unicell; c=colony; f=filament; g= flagellate

| Genus                       | Div.-Form | Rel. Count | Total per mL | Comp.  | Genus                      | Div.-Form | Rel. Count | Total per mL. | Comp   |
|-----------------------------|-----------|------------|--------------|--------|----------------------------|-----------|------------|---------------|--------|
| <i>Achnanthes</i>           | bac-u     |            |              |        | <i>Microcystis</i>         | cyn-c     |            |               |        |
| <i>Anabaena</i>             | cyn-f     |            |              |        | <i>Microspora</i>          | chl-f     |            |               |        |
| <i>Ankistrodesmus</i>       | chl-u     |            |              |        | <i>Nanochloris</i>         | chl-u     |            |               |        |
| <i>Aphanothece</i>          | cyn-c     |            |              |        | <i>Navicula</i>            | bac-u     |            |               |        |
| <i>Asterionella</i>         | bac-c     |            |              |        | <i>Nitzschia</i>           | bac-u     |            |               |        |
| <i>Botryococcus</i>         | chl-c     |            |              |        | <i>Oocystis</i>            | chl-c     |            |               |        |
| <i>Carteria</i>             | chl-ug    |            |              |        | <b><i>Oscillatoria</i></b> | cyn-f     | 40         | 921           | 51.95% |
| <i>Cephalomonas</i>         | chl-ug    |            |              |        | <i>Pandorina</i>           | chl-cg    |            |               |        |
| <i>Chaetoceros</i>          | bac-f     |            |              |        | <i>Pediastrum</i>          | chl-c     |            |               |        |
| <b><i>Chlamydomonas</i></b> | chl-ug    | 1          | 23           | 1.30%  | <i>Peridinium</i>          | pyr-ug    |            |               |        |
| <b><i>Chlorella</i></b>     | chl-u     | 2          | 46           | 2.60%  | <i>Phacotus</i>            | chl-ug    |            |               |        |
| <i>Chlorogonium</i>         | chl-ug    |            |              |        | <i>Phacus</i>              | chl-ug    |            |               |        |
| <i>Chodatella</i>           | chl-u     |            |              |        | <i>Pinnularia</i>          | bac-u     |            |               |        |
| <b><i>Chroomonas</i></b>    | crp-ug    | 27         | 621          | 35.06% | <i>Pithophora</i>          | chl-f     |            |               |        |
| <i>Chroococcus</i>          | cyn-c     |            |              |        | <i>Planktosphaeria</i>     | chl-c     |            |               |        |
| <i>Cocconeis</i>            | bac-u     |            |              |        | <i>Rhizoclonium</i>        | chl-f     |            |               |        |
| <i>Coelastrum</i>           | chl-c     |            |              |        | <i>Rhoicosphenia</i>       | bac-u     |            |               |        |
| <i>Cosmarium</i>            | chl-u     |            |              |        | <i>Rhopalodia</i>          | bac-u     |            |               |        |
| <i>Cosmocladium</i>         | chl-c     |            |              |        | <i>Scenedesmus</i>         | chl-c     |            |               |        |
| <i>Crucigenia</i>           | chl-c     |            |              |        | <i>Schroederia</i>         | chl-u     |            |               |        |
| <i>Cryptomonas</i>          | crp-ug    |            |              |        | <i>Selanastrum</i>         | chl-u     |            |               |        |
| <i>Cyclotella</i>           | bac-u     |            |              |        | <i>Sphaerocystis</i>       | chl-c     |            |               |        |
| <i>Cymbella</i>             | bac-u     |            |              |        | <i>Spondylumorum</i>       | chl-c     |            |               |        |
| <b><i>Denticula</i></b>     | bac-u     | 3          | 69           | 3.90%  | <i>Spirulina</i>           | cyn-f     |            |               |        |
| <i>Diatoma</i>              | bac-u     |            |              |        | <i>Staurastrum</i>         | chl-u     |            |               |        |
| <i>Dysmorphococcus</i>      | chl-ug    |            |              |        | <i>Stephanodiscus</i>      | bac-u     |            |               |        |
| <i>Eremosphaeria</i>        | chl-u     |            |              |        | <i>Stigeoclonium</i>       | chl-f     |            |               |        |
| <i>Euastrum</i>             | chl-u     |            |              |        | <i>Surirella</i>           | bac-u     |            |               |        |
| <i>Fragilaria</i>           | bac-u     |            |              |        | <i>Synechococcus</i>       | cyn-u     |            |               |        |
| <i>Frustulia</i>            | bac-u     |            |              |        | <i>Synechocystis</i>       | cyn-c     |            |               |        |
| <i>Glenodinium</i>          | pyr-ug    |            |              |        | <b><i>Synedra</i></b>      | bac-u     | 2          | 46            | 2.60%  |
| <i>Golenkinia</i>           | chl-c     |            |              |        | <i>Synura</i>              | cry-cg    |            |               |        |
| <i>Gomphonema</i>           | bac-u     |            |              |        | <i>Tetraedron</i>          | chl-u     |            |               |        |
| <i>Gonium</i>               | chl-cg    |            |              |        | <b><i>Thoracomonas</i></b> | chl-u     | 2          | 46            | 2.60%  |
| <i>Gonyaulax</i>            | pyr-ug    |            |              |        | <i>Trachelomonas</i>       | eug-ug    |            |               |        |
| <i>Gymnodinium</i>          | bac-u     |            |              |        | <i>Vaucheria</i>           | chl-f     |            |               |        |
| <i>Holopedium</i>           | cyn-u     |            |              |        | <i>Volvox</i>              | chl-cg    |            |               |        |
| <i>Lyngbya</i>              | cyn-f     |            |              |        | <i>Zygnema</i>             | chl-f     |            |               |        |
| <i>Mastogloia</i>           | bac-u     |            |              |        |                            |           |            |               |        |
| <i>Meridion</i>             | bac-u     |            |              |        |                            |           |            |               |        |
| <i>Merismopedia</i>         | cyn-c     |            |              |        |                            |           |            |               |        |

check 100.00%

Aquatic Consulting & Testing, Inc.  
1525 W. University Dr., Suite 106  
Tempe, Arizona 85281

Count (cells/mL) 1.77E+03





# AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106  
P.O. Box 1510  
Tempe, Arizona 85281  
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

## LABORATORY REPORT

**Client:** Dobson Ranch Association  
2719 South Reyes Road  
Mesa, AZ 85202

**Date Submitted:** 03/20/25  
**Date Reported:** 03/25/25

**Attn:** Executive Director

**Project:** Monthly Lake 1-8 Monitoring

### RESULTS

**Client ID:** Lake 1  
**ACT Lab No.:** CH01522

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 11:05

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 3.3           | NTU         |

**Client ID:** Lake 2  
**ACT Lab No.:** CH01523

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:55

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 3.2           | NTU         |

**Client ID:** Lake 3  
**ACT Lab No.:** CH01524

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:45

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 3.6           | NTU         |

**Client ID:** Lake 4  
**ACT Lab No.:** CH01525

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:35

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 7.8           | NTU         |

## RESULTS

**Client ID:** Lake 5  
**ACT Lab No.:** CH01526

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:30

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 5.4           | NTU         |

**Client ID:** Lake 6  
**ACT Lab No.:** CH01527

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:20

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 6.6           | NTU         |

**Client ID:** Lake 7  
**ACT Lab No.:** CH01528

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:10

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 2.7           | NTU         |

**Client ID:** Lake 8  
**ACT Lab No.:** CH01529

**Sample Type:** Surface Water  
**Sample Time:** 03/20/25 10:05

| <u>Parameter</u> | <u>Analysis Date</u> |            | <u>Method No.</u> | <u>Result</u> | <u>Unit</u> |
|------------------|----------------------|------------|-------------------|---------------|-------------|
|                  | <u>Start</u>         | <u>End</u> |                   |               |             |
| Golden Algae     | 03/20/25             | 03/20/25   | P/C Microscopy    | Absent        | Pres/Abs    |
| Turbidity        | 03/20/25             | 03/20/25   | 180.1             | 5.3           | NTU         |

Reviewed by: \_\_\_\_\_

  
**Frederick A. Amalfi, Ph.D.**  
**Laboratory Director**

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