



AQUATIC CONSULTING & TESTING, INC.

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Lic. No. AZ0003

07 June 2025

Dobson Ranch HOA
2719 South Reyes
Mesa, Arizona 85202

May 2025 Lake Report

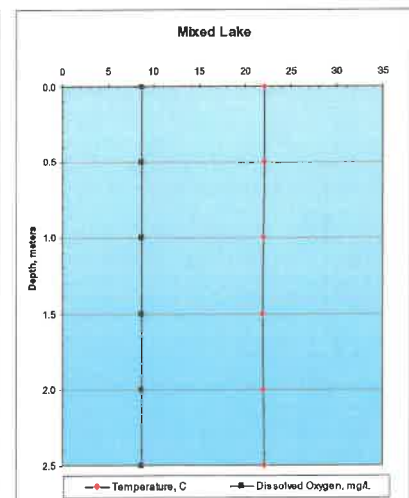
The following report presents the results of field inspections on the Dobson Ranch lakes for the month of May 2025. This report summarizes data collected under the revised program initiated in 2019 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October 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 (March 2025) 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.

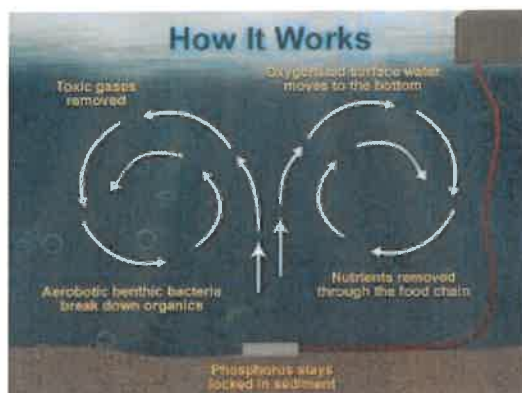
The following provides brief descriptions of some of the more important parameters.

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.

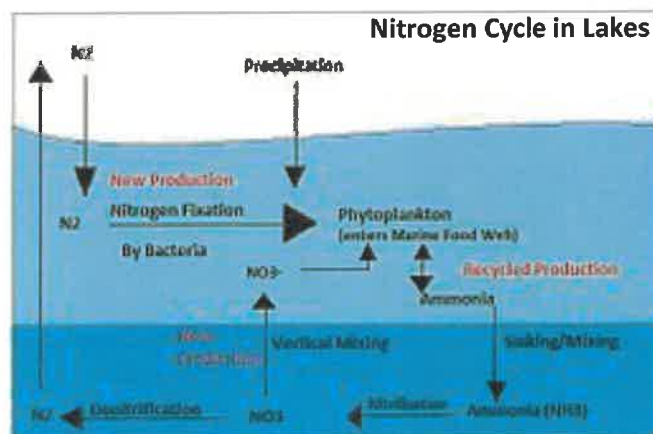
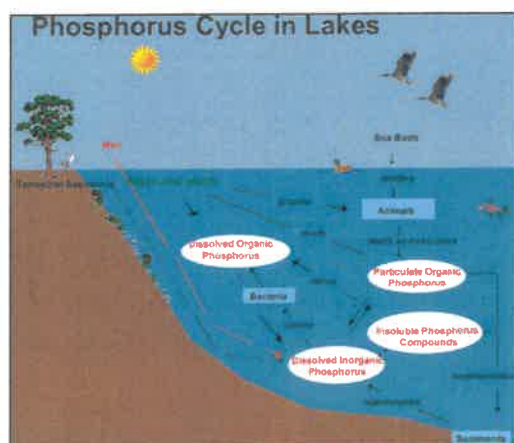


Aeration systems are designed to circulate and distribute oxygen vertically in the water column. Circulation is necessary for two primary purposes: (1) to deliver oxygen to the deeper waters for fish survival and (2) to maintain an aerobic environment throughout the lake to prevent the release and distribution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

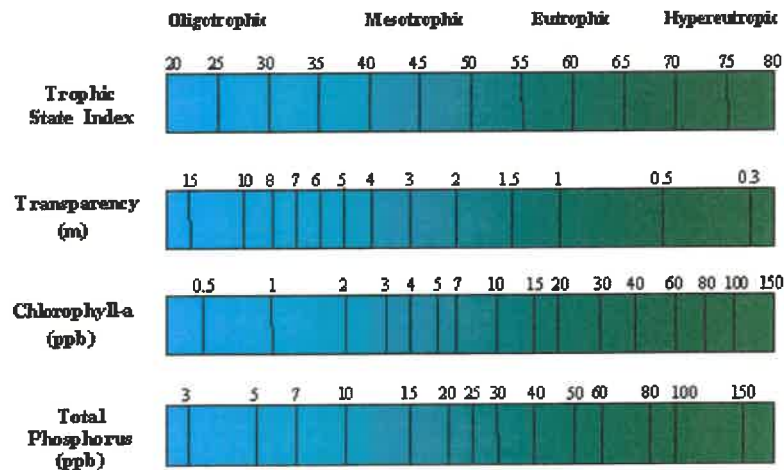
Algae are beneficial to a lake as they provide food for aquatic organisms and produce oxygen. However, some algae are undesirable and an overabundance of algae reduces aesthetic appeal and interferes with the ecological balance of the environment. Large die offs of algae can deplete dissolved oxygen 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.



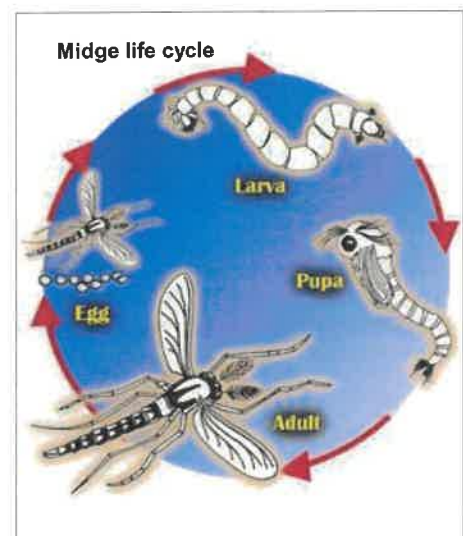
The Trophic Status report addendum provides each of these values for the sampling sites. For southern Arizona, a TSI of less than 60 is the target for reasonable aesthetic quality. Fisheries often flourish when TSI values are in the 55 to 65 range. Severe aesthetic and recreational problems occur when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

May 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 24.0 C to a high of 24.8 C (75-77 F). The lake exhibited no thermal stratification (vertically mixed) and no significant loss of oxygen with depth. Water pH was 8.2 SU indicating low to moderate algae density. Dissolved oxygen (7.2-8.0 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 1.45 m and turbidity ranged from 3.7 to 4.4 NTU. Fountains were in service.

Alkalinity (135 mg/L as CaCO₃) and hardness (174 mg/L as CaCO₃) decreased slightly. Values are still typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake was stable at 648.

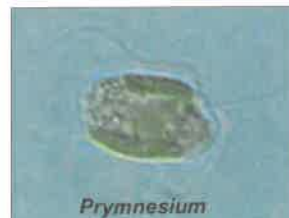
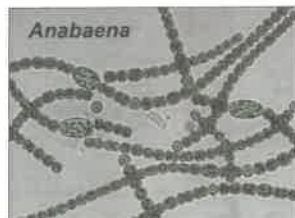
Waterfowl mean density was less than two birds per acre (<2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted.

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 80 larvae per sq m.

Bio-available nitrogen and total nitrogen changed slightly to 0.24 mg/L and 0.57 mg/L, respectively. Phosphorus concentration increased slightly to 0.021 mg/L. Ammonia increased to 0.17 mg/L. At ambient temperature and pH, no toxicity issues would result. Chlorophyll concentration, indicative of algal biomass, remained very low at 0.68 ug/L. Algae density was correspondingly low (3.31 x 10² cells/mL). The dominant alga was *Anabaena*, a problematic form. The relatively low total algae density prevented any issues. 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 remained low at 43, 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 became aesthetically more pleasing, but may have anoxia in the deep waters during the summer.

The *E. coli* concentration was 3 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 June 2025 remained at 52 and lake conditions remained in the “excellent” category.

Lake 2

Water temperature ranged from 23.7-24.5 C (75-76 F). Lake 2 was vertically mixed. No substantial loss of oxygen in the deep waters occurred (see attached profiles). The surface dissolved oxygen concentrations (7.2-8.0 mg/L) were above the target 6.0 mg/L concentration desired to protect the fishery and no fish stress was observed. Fountains were in service. Water pH remained suitable at 7.2-8.2 SU, and indicated reduction in suspended (planktonic) algae density. Low pH is advantageous because it prevents conversion of ammonium ions (NH_4^+) to toxic (to aquatic animals) ammonia (NH_3) gas. Transparency (Secchi disk depth) decreased to 1.45 m (4.7 ft) and turbidity increased to 5.6-6.2 NTU; still representing reasonably clear waters.

Alkalinity (128 mg/L as CaCO_3) and hardness (178 mg/L as CaCO_3) represented minor decreases. Concentrations would be expected from most waters in central Arizona. The total dissolved solids (mineral) concentration was stable at 652 mg/L.

Midge fly density decreased to 120/m² and should produce no issues to lakeside residents or visitors.

Maximum waterfowl density was 2.3 birds per acre which is considered ‘excellent’ (Arizona Game & Fish Department rating system). No cormorants were noted.

Bio-available nitrogen concentration doubled to 0.34 mg/L. Total nitrogen decreased to 0.72 mg/L. Phosphorus concentration increased to 0.024 mg/L; still a desirable value. Ammonia concentration was 0.22 mg/L. At ambient temperature and pH, no ammonia toxicity issues would result.

Chlorophyll concentration, indicative of algal biomass, decreased slightly to 1.27 ug/L. Algae density was fairly stable at 2.19×10^3 cells/mL. As in Lake 1, *Anabaena*, was the dominant form and low numbers prevented any issues. 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 was problematic in the past.

The mean TSI value was 46 (range 33-56), 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 5 MPN/100 mL and met the full body contact (swimming) and partial body contact (fishing and boating) recreation standards.

The Lake Report Card value for May 2025 was 50, down two points compared to March 2025. The value still placed the lake in the “excellent” category.

Lake 3

Lake temperature range was 24.1-24.5 C (75-76 F). Water pH was 8.2-8.7 SU. . Low pH is more advantageous because it prevents conversion of ammonium ions (NH_4^+) to toxic (to aquatic animals) ammonia (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 fountain was not in service. The surface dissolved oxygen concentration (7.4-8.7 mg/L) met the minimum target of 6.0 mg/L desired to protect the fishery. No fish stress was observed Transparency was stable at 1.65 m (5.5 ft). Turbidity range was 2.2-9.7 NTU. Fountains were not in service at the time of sampling.

Waterfowl density was less than two birds per acre which is considered excellent (Arizona Game & Fish Department rating system). No cormorants were observed.

Midge fly density was low ($<40/\text{m}^2$) and should not produce nuisances to lakeside residents or visitors.

Alkalinity (135 mg/L as CaCO_3) and hardness (210 mg/L as CaCO_3) were within typical ranges for most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake increased to 712 mg/L.

Bio-available nitrogen concentration increased slightly to 0.29 mg/L, but total nitrogen was stable at 0.94 mg/L. Phosphorus concentration was fairly stable and relatively low at 0.018 mg/L. The ammonia concentration was 0.25 mg/L and would not create any toxicity issues at ambient temperature and pH.

Chlorophyll concentration, indicative of algal biomass, decreased to 0.53 ug/L. Algae density was stable at 5.52×10^2 cells/mL. The dominant alga was *Pediastrum* a green (*Chlorophyta*) colony. 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 four units to 41 (range 24-53), with the lake remaining in the mesotrophic category.

The *E. coli* concentration was 5 MPN/100 mL and met partial and full body contact (swimming) recreation limits.

The Lake Report Card value for May 2025 was 54, a three-unit increase compared to the March 2025 value and maintaining the lake in the “excellent” category. Low phosphorus and chlorophyll concentration continue to positively impact the score.

Lake 4

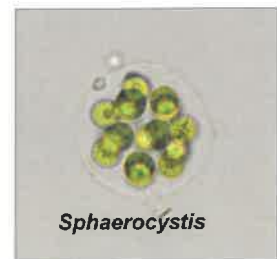
Lake 4 was vertically mixed with little loss of oxygen in the deep water (see attached profiles). Temperature ranged from 24.1 to 24.6 C (75-76 F). The surface dissolved oxygen concentrations were 8.0 to 8.1 mg/L. Concentrations were at the satisfactory level for the fishery and fish activity appeared normal. The fountain was in service. Water pH ranged from 8.3-8.6 SU and indicated a moderate suspended algae density. Water transparency was stable at 0.97 m (3.1 ft). Turbidity was slightly higher than typical at 11-19 NTU.

Waterfowl density was no more than two birds per acre which is considered excellent (Arizona Game & Fish Department rating system). No cormorants were noted. Midge fly density was quite low (<40/m²) and should produce no issues to lakeside residents or visitors.

Alkalinity (135 mg/L as CaCO₃) and hardness (178 mg/L as CaCO₃) decreased slightly 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 776 mg/L.

Bio-available nitrogen concentration increased to 0.31 mg/L, but total nitrogen was stable at 0.91 mg/L. Phosphorus concentration was also stable at 0.024 mg/L. The ammonia concentration increased to 0.20 mg/L, but at ambient pH and temperature, acute or chronic ammonia toxicity to fish would not occur.

Algae density decreased to 6.06 x 10² cells/mL; a very low density. The dominant alga was *Sphaerocystis*, a green (Chlorophyta) colony. This alga is not problematic. The chlorophyll-a concentration (biomass indicator) was stable at 1.44 ug/L. The potentially toxic golden alga (*Prymnesium parvum*) was not present during the month.



The mean TSI value was 48 (range 34-60), maintaining the lake in 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 60 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 May 2025 was 51, a four unit increase in score, and placing the lake in the “excellent” category.

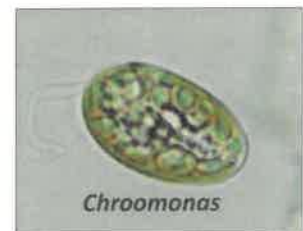
Lake 5

Lake temperature ranged from 22.9-23.6 C (73-74 F) during the month. Water pH was 8.5 SU, indicative of a low to moderate algal density. Dissolved oxygen (6.6-7.9 mg/L) was satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 6.0-6.8 NTU and indicating reasonably clear water.

Waterfowl density was 3-5 birds per acre; good to fair 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 *Chroomonas*, a unicellular cryptophyte. The total cell density was low. No golden algae (*Prymnesium parvum* or related species) were detected.



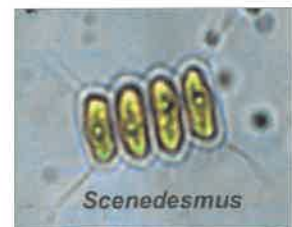
Lake 6

The temperature of Lake 6 ranged from 23.8-24.0 (75 F) during the reporting period. Water pH ranged from 8.5 to 8.8 SU, indicating low to moderate algae density. Dissolved oxygen (7.8-8.0 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 8.1-18 NTU during the month and transparency was less than one meter. Data indicated possible increased algae growth.

Waterfowl density was approximately 3-5 birds per acre which is considered good to fair. 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 green (Chlorophyta) colony, *Scenedesmus*. The alga is rarely problematic and no issues occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.



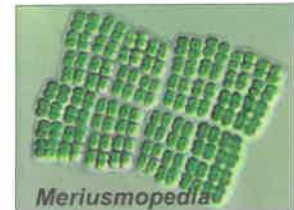
Lake 7

Lake temperature ranged from 23.5-24.3 C (74-76 F). Water pH was 8.8-9.0 SU during the reporting period. Dissolved oxygen ranged from 8.0 to 8.9 mg/L and was

satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter, with turbidity of 6.0-8.0 NTU. Fountains were in operation.

Waterfowl density was about one bird per acre; 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 slightly turbid. Golden algae were not identified in the lake during the reporting period.



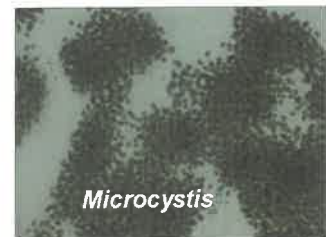
Lake 8

Lake temperatures ranged from 22.7 to 23.8 C (73-75 F) during the month. Water pH was 8.5-8.8 SU. Dissolved oxygen concentrations were 7.1-7.7 mg/L and were satisfactory for the fishery. Fish activity was normal. Transparency was under one meter and turbidity measured 3.6 to 4.2 NTU. Aerators were not operational.

Waterfowl density was variable; ranging from an average of 4 to 7 birds per acre. The rating would be considered poor 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 *Microcystis*. The alga can make the water appear turbid and olive green in color and form surface scum. Golden algae were not observed.



Coming up:

Lakes 5-8 are scheduled for comprehensive monitoring in June. All lakes will be visually inspected and field data collected two times during the month and checked for golden algae until air temperatures consistently exceed 100 F.

Respectfully:

Aquatic Consulting & Testing, Inc.

A handwritten signature in black ink, appearing to read "Frederick A. Amalfi". The signature is stylized and cursive.

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: **May-25** CONDITION **EXCELLENT** SCORE **52** **50** **54** **51**

PREVIOUS EVALUATION: **Mar-25** CONDITION **EXCELLENT** SCORE **52** **52** **51** **47**

Last complete analysis

CONDITION	RATIONALE	4 pts EXCELLENT	3 pts GOOD	2 pts FAIR	1 pt POOR	SCORE Lake 1	SCORE Lake 2	SCORE Lake 3	SCORE Lake 4
Transparency - SDz (m) avg.	aesthetics	1.5-2.0	1.0-1.4	0.5-0.9	<0.5	4	3	4	3
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	3	4	2
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 ⁴	5x10 ⁴ - 9x10 ⁴	1 x 10 ⁵ - 5x10 ⁵	>5 x 10 ⁵	4	4	4	4
Midge larvae (# per sq m)	aesthetics	<200	200-400	500-800	>800	4	4	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	2	2	4	4
pH (SU) avg.	swimming, fishery, ammonia toxicity	6.5-8.0	8.1-8.5	8.6-9.0	>9.0	3	3	3	3
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	4
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

SCORING KEY:
 Excellent 50-56
 Good 41-49
 Fair 30-40
 Poor <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: 01-May-25

	LAKE	LAKE	LAKE	LAKE			
PARAMETER	1	2	3	4			
Secchi Disk Depth (m)	1.45	1.35	1.65	0.97			
Phosphorus, total (ug/L)	21	24	18	24			
Chlorophyll-a (ug/L)	0.7	1.3	0.5	1.4			
	LAKE	LAKE	LAKE	LAKE			
TSI VALUES	1	2	3	4			
Secchi Disk Depth	55	56	53	60			
Phosphorus, total	48	50	46	50			
Chlorophyll-a	27	33	24	34			
AVERAGE	43	46	41	48	45		

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.



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LABORATORY REPORT

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

Date Submitted: 05/01/25
Date Reported: 05/20/25

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-4 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CH02316

Sample Type: Surface Water
Sample Time: 05/01/25 10:00

<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	05/15/25	05/15/25	SM 10200 F	See Attached	cells/mL
Algae Identification	05/15/25	05/15/25		See Attached	
Chl/Pheo Ratio	05/05/25	05/05/25	SM10200 H	1.30	
Chlorophyll a	05/05/25	05/05/25	SM10200 H	0.68	ug/L
Golden Algae	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Midge count	05/01/25	05/07/25	SM10500 C	80	#/sq. meter
Pheophytin a	05/05/25	05/05/25	SM10200 H	0.91	ug/L
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.2	mg/L as O ₂
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.2	SU
Secchi Disk Depth	05/01/25	05/07/25	NALMS	1.45	meters
Temperature, Field	05/01/25	05/07/25	SM2550 B	24.0	C
Alkalinity, Total	05/19/25	05/19/25	SM 2320 B	135	mg/L as CaCO ₃
Ammonia - N	05/16/25	05/16/25	SM4500NH ₃ D	0.17	mg/L as N
Nitrate + Nitrite - N	05/08/25	05/08/25	SM4500NO ₃ E	0.07	mg/L as N
Phosphorus, Total	05/05/25	05/09/25	365.3	0.021	mg/L as P
Total Hardness	05/19/25	05/19/25	SM2340C	174	mg/L as CaCO ₃
Total Kjeldahl Nitrogen	05/09/25	05/11/25	SMNorg C,NH ₃ C/D	0.5	mg/L as N
E. coli, Colilert	05/01/25	05/02/25	SM 9223 B	3	MPN/100 mL
Total Dissolved Solids	05/07/25	05/09/25	SM2540 C	648	mg/L
Turbidity	05/01/25	05/01/25	180.1	4.4	NTU

RESULTS

Client ID: Lake 2
ACT Lab No.: CH02317

Sample Type: Surface Water
Sample Time: 05/01/25 09:30

Parameter	Analysis Date		Method No.	Result	Unit
	Start	End			
Algae Count	05/15/25	05/15/25	SM 10200 F	See Attached	cells/mL
Algae Identification	05/15/25	05/15/25		See Attached	
Chl/Pheo Ratio	05/05/25	05/05/25	SM10200 H	1.42	
Chlorophyll a	05/05/25	05/05/25	SM10200 H	1.27	ug/L
Golden Algae	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Midge count	05/01/25	05/07/25	SM10500 C	120	#/sq. meter
Pheophytin a	05/05/25	05/05/25	SM10200 H	0.86	ug/L
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.0	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.2	SU
Secchi Disk Depth	05/01/25	05/07/25	NALMS	1.35	meters
Temperature, Field	05/01/25	05/07/25	SM2550 B	23.7	C
Alkalinity, Total	05/19/25	05/19/25	SM 2320 B	128	mg/L as CaCO3
Ammonia - N	05/16/25	05/16/25	SM4500NH3 D	0.22	mg/L as N
Nitrate + Nitrite - N	05/08/25	05/08/25	SM4500NO3 E	0.12	mg/L as N
Phosphorus, Total	05/05/25	05/09/25	365.3	0.024	mg/L as P
Total Hardness	05/19/25	05/19/25	SM2340C	178	mg/L as CaCO3
Total Kjeldahl Nitrogen	05/09/25	05/11/25	SMNorg C,NH3 C/D	0.6	mg/L as N
E. coli, Colilert	05/01/25	05/02/25	SM 9223 B	5	MPN/100 mL
Total Dissolved Solids	05/07/25	05/09/25	SM2540 C	652	mg/L
Turbidity	05/01/25	05/01/25	180.1	6.2	NTU

RESULTS

Client ID: Lake 3
ACT Lab No.: CH02318

Sample Type: Surface Water
Sample Time: 05/01/25 08:40

<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	05/15/25	05/15/25	SM 10200 F	See Attached	cells/mL
Algae Identification	05/15/25	05/15/25		See Attached	
Chl/Pheo Ratio	05/05/25	05/05/25	SM10200 H	1.25	
Chlorophyll a	05/05/25	05/05/25	SM10200 H	0.53	ug/L
Golden Algae	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Midge count	05/01/25	05/07/25	SM10500 C	<40	#/sq. meter
Pheophytin a	05/05/25	05/05/25	SM10200 H	0.95	ug/L
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	7.4	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.2	SU
Secchi Disk Depth	05/01/25	05/07/25	NALMS	1.65	meters
Temperature, Field	05/01/25	05/07/25	SM2550 B	24.1	C
Alkalinity, Total	05/19/25	05/19/25	SM 2320 B	135	mg/L as CaCO3
Ammonia - N	05/16/25	05/16/25	SM4500NH3 D	0.25	mg/L as N
Nitrate + Nitrite - N	05/08/25	05/08/25	SM4500NO3 E	0.	mg/L as N
Phosphorus, Total	05/05/25	05/09/25	365.3	0.018	mg/L as P
Total Hardness	05/19/25	05/19/25	SM2340C	210	mg/L as CaCO3
Total Kjeldahl Nitrogen	05/09/25	05/11/25	SMNorg C,NH3 C/D	0.9	mg/L as N
E. coli, Colilert	05/01/25	05/02/25	SM 9223 B	5	MPN/100 mL
Total Dissolved Solids	05/07/25	05/09/25	SM2540 C	712	mg/L
Turbidity	05/01/25	05/01/25	180.1	2.2	NTU

RESULTS

Client ID: Lake 4
ACT Lab No.: CH02319

Sample Type: Surface Water
Sample Time: 05/01/25 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	05/15/25	05/15/25	SM 10200 F	See Attached	cells/mL
Algae Identification	05/15/25	05/15/25		See Attached	
Chl/Pheo Ratio	05/05/25	05/05/25	SM10200 H	1.60	
Chlorophyll a	05/05/25	05/05/25	SM10200 H	1.44	ug/L
Golden Algae	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Midge count	05/01/25	05/07/25	SM10500 C	<40	#/sq. meter
Pheophytin a	05/05/25	05/05/25	SM10200 H	0.24	ug/L
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.0	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.3	SU
Secchi Disk Depth	05/01/25	05/07/25	NALMS	0.97	meters
Temperature, Field	05/01/25	05/07/25	SM2550 B	24.1	C
Alkalinity, Total	05/19/25	05/19/25	SM 2320 B	135	mg/L as CaCO3
Ammonia - N	05/16/25	05/16/25	SM4500NH3 D	0.20	mg/L as N
Nitrate + Nitrite - N	05/08/25	05/08/25	SM4500NO3 E	0.11	mg/L as N
Phosphorus, Total	05/05/25	05/09/25	365.3	0.024	mg/L as P
Total Hardness	05/19/25	05/19/25	SM2340C	178	mg/L as CaCO3
Total Kjeldahl Nitrogen	05/09/25	05/11/25	SMNorg C,NH3 C/D	0.8	mg/L as N
E. coli, Colilert	05/01/25	05/02/25	SM 9223 B	60	MPN/100 mL
Total Dissolved Solids	05/07/25	05/09/25	SM2540 C	776	mg/L
Turbidity	05/01/25	05/01/25	180.1	19.	NTU

Client ID: Lake 5
ACT Lab No.: CH02320

Sample Type: Surface Water
Sample Time: 05/01/25 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	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.5	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.5	SU
Temperature, Field	05/01/25	05/07/25	SM2550 B	22.9	C
Turbidity	05/01/25	05/01/25	180.1	6.0	NTU

RESULTS

Client ID: Lake 6
ACT Lab No.: CH02321

Sample Type: Surface Water
Sample Time: 05/01/25 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	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.5	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.5	SU
Temperature, Field	05/01/25	05/07/25	SM2550 B	23.0	C
Turbidity	05/01/25	05/01/25	180.1	8.1	NTU

Client ID: Lake 7
ACT Lab No.: CH02322

Sample Type: Surface Water
Sample Time: 05/01/25 07:10

<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	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.8	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.8	SU
Temperature, Field	05/01/25	05/07/25	SM2550 B	23.5	C
Turbidity	05/01/25	05/01/25	180.1	6.0	NTU

Client ID: Lake 8
ACT Lab No.: CH02323

Sample Type: Surface Water
Sample Time: 05/01/25 06:50

<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	05/01/25	05/01/25	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	05/01/25	05/07/25	SM4500 O G	8.5	mg/L as O2
pH, Field	05/01/25	05/07/25	SM4500H+ B	8.5	SU
Temperature, Field	05/01/25	05/07/25	SM2550 B	22.7	C
Turbidity	05/01/25	05/01/25	180.1	3.6	NTU

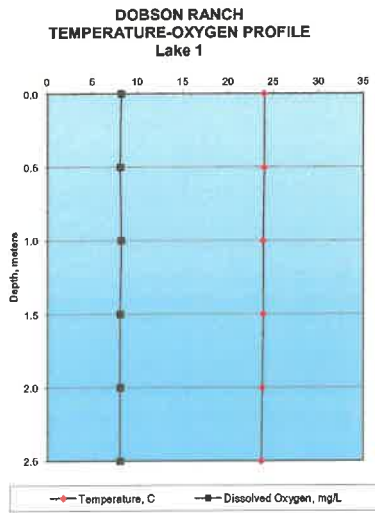
Reviewed by: _____


Frederick A. Amalfi, Ph.D.
Laboratory Director

Field Data for 05-01-25 Sampling Event
 Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 1

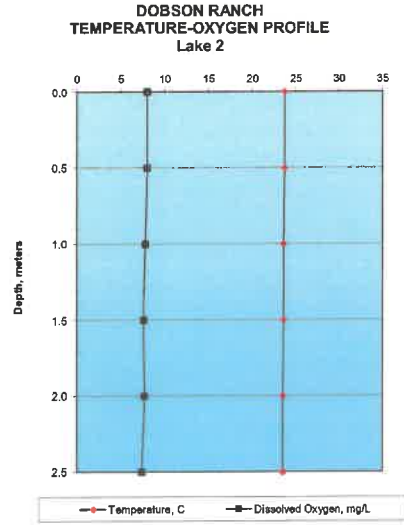
Depth, m	Temp, C	Oxygen, mg/L
0.0	24.0	8.2
0.5	24.0	8.1
1.0	23.9	8.2
1.5	23.9	8.1
2.0	23.8	8.1
2.5	23.7	8.1



Field Data for 05-01-25 Sampling Event
 Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 2

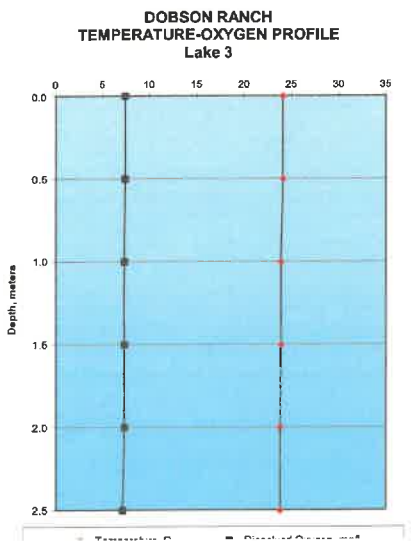
Depth, m	Temp, C	Oxygen, mg/L
0.0	23.7	8.0
0.5	23.7	8.0
1.0	23.6	7.8
1.5	23.6	7.6
2.0	23.5	7.7
2.5	23.5	7.4



Field Data for 05-01-25 Sampling Event
 Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 3

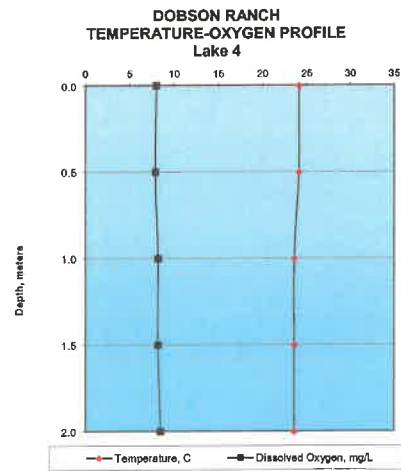
Depth, m	Temp, C	Oxygen, mg/L
0.0	24.1	7.4
0.5	24.1	7.4
1.0	23.9	7.3
1.5	23.9	7.3
2.0	23.8	7.3
2.5	23.8	7.1



Field Data for 05-01-25 Sampling Event
 Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 4

Depth, m	Temp, C	Oxygen, mg/L
0.0	24.1	8.0
0.5	24.1	7.9
1.0	23.6	8.2
1.5	23.6	8.2
2.0	23.6	8.5



ALGAE IDENTIFICATION

AC&T Lab No.	CH-02316	Date Collected	05/01/25
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.- 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			
Anabaena	cyn-f	5	92	27.78%	<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				Navicula	bac-u	2	37	11.11%
<i>Asterionella</i>	bac-c				<i>Nitzschia</i>	bac-u			
<i>Botryococcus</i>	chl-c				<i>Oocystis</i>	chl-c			
Carteria	chl-ug	2	37	11.11%	<i>Oscillatoria</i>	cyn-f			
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c			
Chlamydomonas	chl-ug	1	18	5.56%	<i>Peridinium</i>	pyr-ug			
Chlorella	chl-u	4	74	22.22%	<i>Phacotus</i>	chl-ug			
<i>Chlorococcum</i>	chl-c				<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
Chroomonas	crp-ug	2	37	11.11%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pseudokirchneriella</i>	chl-u			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Cosmocladium</i>	chl-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Scytonema</i>	chl-f			
<i>Cyclotella</i>	bac-u				<i>Sphaerocystis</i>	chl-c			
Cymbella	bac-u	1	18	5.56%	<i>Spondylumorum</i>	chl-c			
<i>Diatoma</i>	bac-u				<i>Spirulina</i>	cyn-f			
<i>Denticula</i>	cry-u				<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<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>Tetrastrum</i>	chl-c			
<i>Gonyaulax</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
Gymnodinium	pyr-ug	1	18	5.56%	<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<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) 3.31E+02

ALGAE IDENTIFICATION

AC&T Lab No.	CH-02317	Date Collected	05/01/25
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.- 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			
Anabaena	cyn-f	75	1770	80.65%	<i>Microspora</i>	chl-f			
<i>Ankistrodesmus</i>	chl-u				<i>Mougeotia</i>	chl-f			
<i>Aphanocapsa</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				<i>Oscillatoria</i>	cyn-f			
<i>Cephalomonas</i>	chl-ug				<i>Palmellococcus</i>	chl-u			
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c			
Chlamydomonas	chl-ug	1	24	1.08%	<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u				<i>Phacotus</i>	chl-ug			
<i>Chlorococcum</i>	chl-c				<i>Phacus</i>	chl-ug			
Chroococcus	cyn-c	6	142	6.45%	<i>Pinnularia</i>	bac-u			
Chroomonas	crp-ug	2	47	2.15%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pseudokirchneriella</i>	chl-u			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Cosmocladium</i>	chl-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Scytonema</i>	chl-f			
<i>Cyclotella</i>	bac-u				<i>Sphaerocystis</i>	chl-c			
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
Diatoma	bac-u	3	71	3.23%	<i>Spirulina</i>	cyn-f			
Denticula	cry-u	2	47	2.15%	<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<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			
Golenkinia	chl-c	2	47	2.15%	<i>Synura</i>	cry-cg			
<i>Gomphonema</i>	bac-u				<i>Tetraedron</i>	chl-u			
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gonyaulax</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gymnodinium</i>	pyr-ug				<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
Melosira	bac-f	2	47	2.15%					
<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) 2.19E+03

ALGAE IDENTIFICATION

AC&T Lab No.
Client I.D.CH-02318
Lake 3Date Collected
Collected By05/01/25
AC&TDivisions: 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>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u	1	20	3.70%
<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>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c	8	164	29.63%
<i>Chlamydomonas</i>	chl-ug	5	102	18.52%	<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u	4	82	14.81%	<i>Phacotus</i>	chl-ug			
<i>Chlorococcum</i>	chl-c				<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug	3	61	11.11%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u	1	20	3.70%	<i>Pseudokirchneriella</i>	chl-u			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Cosmocladium</i>	chl-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c	2	41	7.41%
<i>Cryptomonas</i>	crp-ug				<i>Scytonema</i>	chl-f			
<i>Cyclotella</i>	bac-u				<i>Sphaerocystis</i>	chl-c			
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
<i>Diatoma</i>	bac-u				<i>Spirulina</i>	cyn-f			
<i>Denticula</i>	cry-u	2	41	7.41%	<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug				<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	1	20	3.70%
<i>Gonium</i>	chl-cg				<i>Tetrastrum</i>	chl-c			
<i>Gonyaulax</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gyrosigma</i>	bac-u				<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<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 85281Count (cells/mL) 5.52E+02

ALGAE IDENTIFICATION

AC&T Lab No.	CH-02319	Date Collected	05/01/25
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>Mougeotia</i>	chl-f			
<i>Aphanocapsa</i>	cyn-c				<i>Navicula</i>	bac-u	1	24	4.00%
<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>Palmellococcus</i>	chl-u	3	73	12.00%
<i>Ceratium</i>	pyr-ug				<i>Pediastrum</i>	chl-c			
<i>Chlamydomonas</i>	chl-ug	1	24	4.00%	<i>Peridinium</i>	pyr-ug			
<i>Chlorella</i>	chl-u	5	121	20.00%	<i>Phacotus</i>	chl-ug			
<i>Chlorococcum</i>	chl-c				<i>Phacus</i>	chl-ug			
<i>Chroococcus</i>	cyn-c				<i>Pinnularia</i>	bac-u			
<i>Chroomonas</i>	crp-ug	4	97	16.00%	<i>Pithophora</i>	chl-f			
<i>Closterium</i>	chl-u				<i>Prymnesium</i>	hap-ug			
<i>Cocconeis</i>	bac-u				<i>Pseudokirchneriella</i>	chl-u			
<i>Coelastrum</i>	chl-c				<i>Rhizoclonium</i>	chl-f			
<i>Cosmarium</i>	chl-u				<i>Rhoicosphenia</i>	bac-u			
<i>Cosmocladium</i>	chl-c				<i>Rhopalodia</i>	bac-u			
<i>Crucigenia</i>	chl-c				<i>Scenedesmus</i>	chl-c			
<i>Cryptomonas</i>	crp-ug				<i>Scytonema</i>	chl-f			
<i>Cyclotella</i>	bac-u				<i>Sphaerocystis</i>	chl-c	8	194	32.00%
<i>Cymbella</i>	bac-u				<i>Spondylumorum</i>	chl-c			
<i>Diatoma</i>	bac-u				<i>Spirulina</i>	cyn-f			
<i>Denticula</i>	cry-u				<i>Stauroneis</i>	bac-u			
<i>Dunaliella</i>	chl-u				<i>Stephanodiscus</i>	bac-u			
<i>Epithemia</i>	bac-u				<i>Stigeoclonium</i>	chl-f			
<i>Euglena</i>	eug-ug	1	24	4.00%	<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>Tetrastrum</i>	chl-c			
<i>Gonyaulax</i>	pyr-ug				<i>Trachelomonas</i>	eug-ug			
<i>Gymnodinium</i>	pyr-ug	2	48	8.00%	<i>Vaucheria</i>	chl-f			
<i>Hydrodictyon</i>	chl-c				<i>Volvox</i>	chl-cg			
<i>Lyngbya</i>	cyn-f				<i>Zygnema</i>	chl-f			
<i>Melosira</i>	bac-f								
<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) 6.06E+02

Aquatic Consulting & Testing, Inc.
 1525 W. University Drive, Suite 106
 Tempe, AZ 85281
 480-921-8044 fax: 480-921-0049
 lab@aquaticconsulting.com

Chain of Custody

Client Project Info:

Lake 1-4 Monthly Monitoring
 Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
 2719 South Reyes
 Mesa, AZ 85202

Attn: Fran Pawlak, Community Manager
 P: 480-831-8314

E:

AC&T Sampler:

Am

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	5/1/25	600	SW
Lake 2	9:20		SW
Lake 3	8:40		SW
Lake 4	8:00		SW
Lake 5	7:40		SW
Lake 6	7:20		SW
Lake 7	7:10		SW
Lake 8	6:20		SW

Sample Containers # / Preservation:	None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugole	Other:
	3	1	1	1	1	
	3	1	1	1	1	
	3	1	1	1	1	
	3	1	1	1	1	
	2					
	2					
	2					
	2			1		

Field Measurements:

pH, Temp, O2	Turb	Golden algae	Algae - ID + #	#Chl/Phae	E. Coll	TDS	Alkalinity	Hardness	Ammonia (NH3)	TKN-Elec	NO3+NO2	P-T
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X

AC&T Laboratory Sample Identification

C40	2316
	2317
	2318
	2319
	2320
	2321
	2322
	2323

Project Location:	A C & T Sample Receipt:	1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers: 36 Received Intact: YES # Bottles Preserved: 8 Samples On Ice: YES Ice Type: BLUE Sample Receipt Temperature: 26°C	Signature: <i>Andrew Murvet</i> Print Name: Andrew Murvet Date: 5/1/25	Signature: Print Name: Date:
		Signature: <i>Brandon</i> Print Name: Brandon Date: 6/1/25	Signature: Print Name: Date:

-006



AQUATIC CONSULTING & TESTING, INC.

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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: 05/15/25
Date Reported: 05/20/25

Attn: Executive Director

Project: Monthly Lake 1-8 Monitoring

RESULTS

Client ID: Lake 1
ACT Lab No.: CH02617

Sample Type: Surface Water
Sample Time: 05/15/25 08:10

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	3.7	NTU

Client ID: Lake 2
ACT Lab No.: CH02618

Sample Type: Surface Water
Sample Time: 05/15/25 08:15

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	5.6	NTU

Client ID: Lake 3
ACT Lab No.: CH02619

Sample Type: Surface Water
Sample Time: 05/15/25 08:20

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	9.7	NTU

Client ID: Lake 4
ACT Lab No.: CH02620

Sample Type: Surface Water
Sample Time: 05/15/25 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>			
Golden Algae	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	11.	NTU

RESULTS

Client ID: Lake 5
ACT Lab No.: CH02621

Sample Type: Surface Water
Sample Time: 05/15/25 08:35

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	6.8	NTU

Client ID: Lake 6
ACT Lab No.: CH02622

Sample Type: Surface Water
Sample Time: 05/15/25 08:45

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	18.	NTU

Client ID: Lake 7
ACT Lab No.: CH02623

Sample Type: Surface Water
Sample Time: 05/15/25 08:55

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	8.0	NTU

Client ID: Lake 8
ACT Lab No.: CH02624

Sample Type: Surface Water
Sample Time: 05/15/25 09:10

<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	05/15/25	05/15/25	P/C Microscopy	Absent	Pres/Abs
Turbidity	05/15/25	05/15/25	180.1	4.2	NTU

Reviewed by: _____


Frederick A. Amalfi, Ph.D.
Laboratory Director

Aquatic Consulting & Testing, Inc.
 1525 W. University Drive, Suite 106
 Tempe, AZ 85281
 480-921-8044 fax: 480-921-0049
 lab@aquaticconsulting.com

Chain of Custody

Client Project Info:

Lake 1-8 Monthly Monitoring
 Dobson Ranch Association

AC&T Client Reporting Information:

Dobson Ranch Association
 2719 South Reyes
 Mesa, AZ 85202
 Attn: Fran Paqwiak, Community Manager
 P: 480-831-8314
 E:

AC&T Sampler:

Sample Location ID:	Date:	Time:	Matrix:
Lake 1	5-15-25	8:10	SW
Lake 2		8:15	SW
Lake 3		8:20	SW
Lake 4		8:30	SW
Lake 5		8:35	SW
Lake 6		8:45	SW
Lake 7		8:55	SW
Lake 8		9:10	SW

Field Measurements:	Ammonia (NH3)	TKN-Elec	NO3+NO2	P-1	Chl/Pheo	E. Coli	Algae - ID + #	Golden algae	Turb	pH, Temp, O2
								X	X	
								X	X	
								X	X	
								X	X	
								X	X	
								X	X	
								X	X	
								X	X	

Sample Containers # / Preservation:	None Preserved	Na2S2O3 (Sterile)	HNO3 (Nitric)	H2SO4 (Sulfuric)	Lugole	Other:	Page 1 of 1
	1					CHO2617	
	1					2618	
	1					2619	
	1					2620	
	1					2621	
	1					2622	
	1					2623	
	1					2624	

AC&T Laboratory Sample Identification

Project Location:	A C & T Sample Receipt:	1. RELINQUISHED BY:	3. RELINQUISHED BY:
Dobson Ranch	Total # Containers: 16 Received Intact: YES # Bottles Preserved: 16 Non: NO Samples On Ice: YES Ice Type: WET Sample Receipt Temperature: 24°C	Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Date: 5-15-25 Time: 12:55	Signature: _____ Print Name: _____ Date: _____ Time: _____
Notes:		2. RECEIVED BY:	4. RECEIVED BY:
		Signature: <i>[Signature]</i> Print Name: <i>[Name]</i> Date: _____ Time: _____	Signature: _____ Print Name: _____ Date: _____ Time: _____

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DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date: 5/1/25

By: Am

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	<u>24.0</u> C	<u>8.2</u> mg/L	<u>8.7</u> SU	SDz <u>4.4</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>22</u> No/A <u>1.4</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
2	<u>23.7</u> C	<u>8.0</u> mg/L	<u>8.7</u> SU	SDz <u>6.2</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>11</u> No/A <u>1.8</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
3	<u>24.1</u> C	<u>7.4</u> mg/L	<u>8.7</u> SU	SDz <u>2.2</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>13</u> No/A <u>2.1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service
4	<u>24.1</u> C	<u>8.0</u> mg/L	<u>8.3</u> SU	SDz <u>14.0</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>7</u> No/A <u>2.1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
5	<u>22.9</u> C	<u>7.9</u> mg/L	<u>8.5</u> SU	SDz <u>6.0</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>12</u> No/A <u>3.0</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
6	<u>23.8</u> C	<u>7.8</u> mg/L	<u>8.5</u> SU	SDz <u>2.1</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>3.1</u> No/A <u>5.2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
7	<u>23.5</u> C	<u>8.9</u> mg/L	<u>8.8</u> SU	SDz <u>6.0</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>3.6</u> No/A <u>1.0</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service
8	<u>22.7</u> C	<u>7.7</u> mg/L	<u>8.5</u> SU	SDz <u>3.6</u> NTU	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>1.8</u> No/A <u>7.2</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerators <input type="checkbox"/> Operating <input checked="" type="checkbox"/> No service

Notes and recommendations for treatment/operation:

8) Aerators off 3) Fountain off

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date: 5/15/25
 By: Amo

Lake	Temp	Dis. oxygen	pH	Clarity	Algae	Submerged weeds	Fish behavior	Waterfowl density	Insect activity	Mechanical issues
1	<u>24.0 C</u>	<u>7.8 mg/L</u>	<u>8.5 SU</u>	<u>1.45 SDZ</u> <u>3.7 NTU</u>	<input type="checkbox"/> Suspended <input checked="" type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>18</u> No/A <u>1.1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input checked="" type="checkbox"/> Operating <input type="checkbox"/> No service <input type="checkbox"/>
2	<u>24.5 C</u>	<u>7.7 mg/L</u>	<u>8.4 SU</u>	<u>1.35 SDZ</u> <u>5.6 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>13</u> No/A <u>2.2</u>	<input type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input type="checkbox"/> No service <input type="checkbox"/>
3	<u>24.7 C</u>	<u>8.7 mg/L</u>	<u>8.7 SU</u>	<u>1.65 SDZ</u> <u>4.7 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>7</u> No/A <u>1.7</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input type="checkbox"/> <u>No service</u>
4	<u>24.6 C</u>	<u>8.1 mg/L</u>	<u>8.6 SU</u>	<u>0.97 SDZ</u> <u>1.1 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>6</u> No/A <u>2.0</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input type="checkbox"/> No service <input type="checkbox"/>
5	<u>23.6 C</u>	<u>6.6 mg/L</u>	<u>8.5 SU</u>	<u>SDZ</u> <u>6.8 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>19</u> No/A <u>4.7</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
6	<u>24.0 C</u>	<u>8.0 mg/L</u>	<u>8.8 SU</u>	<u>SDZ</u> <u>1.9 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>17</u> No/A <u>2.8</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	
7	<u>24.3 C</u>	<u>8.0 mg/L</u>	<u>9.0 SU</u>	<u>SDZ</u> <u>2.2 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>21</u> No/A <u>< 1</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Fountain <input type="checkbox"/> Operating <input type="checkbox"/> No service <input type="checkbox"/>
8	<u>24.2 C</u> <u>23.8</u>	<u>8.0 mg/L</u> <u>7.1</u>	<u>8.8 SU</u>	<u>SDZ</u> <u>4.2 NTU</u>	<input type="checkbox"/> Suspended <input type="checkbox"/> Floating <input type="checkbox"/> Bottom <input type="checkbox"/> Attached	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Distress <input type="checkbox"/> Dead	No. <u>11</u> No/A <u>4.4</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Infestation	Aerators <input type="checkbox"/> Operating <input type="checkbox"/> No service <input type="checkbox"/>

Notes and recommendations for treatment/operation:

#8 Aerators off 6) water very low 5) very low water 3) Fountain off