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

14 August 2023

Ms. Fran Pawlak, Executive Director Dobson Ranch HOA 2719 South Reyes Mesa, Arizona 85202

July 2023 Lake Report

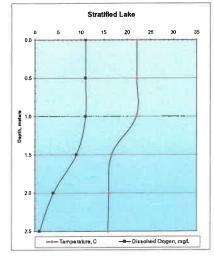
The following report presents the results of field inspections on the Dobson Ranch lakes for the month of July 2023. This report summarizes data collected under the updated program started in 2019 and expanded in 2020 that includes comprehensive testing of one-half of the lakes on a monthly basis from March through October and bi-weekly field inspections twice per month throughout the year. Comprehensive testing on Lakes 1-4 was completed during the month and laboratory reports are provided. Comparison to the last comprehensive test (May 2023) are provided for those lakes. Field sheets for the inspection weeks are also included. Additional data requested for Lake 8 are provided at the end of the narrative report.

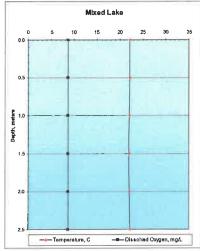
A number of tools have been used to evaluate and quantify the water quality of each lake. These include: Arizona Department of Environmental Quality Numeric Targets for Urban Lakes, the Carlson Trophic Status Index (TSI), and a Lake Report Card based on that used by Arizona Game and Fish Department that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

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

Temperature and Oxygen

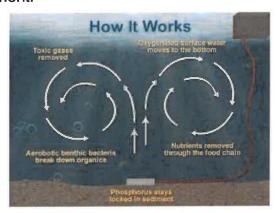
Density differences in water caused by temperature produce a physical barrier to the exchange of gases and between nutrients water lavers. Typically warmer (less dense) water rests above deeper, cooler (more dense) water. Deep waters can become anoxic (oxygen poor) and cause formation and release of





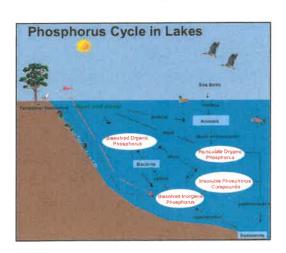
toxic gases as hydrogen sulfide and ammonia, and the release of plant nutrients as phosphates. A vertically mixed lake rarely suffers from such issues.

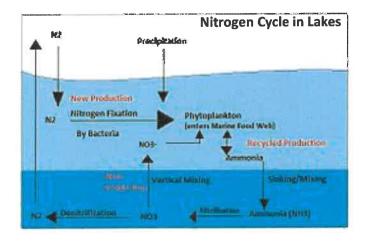
Aeration systems are designed to circulate and distribute oxygen vertically in the water column. Circulation is necessary for two primary purposes: (1) to deliver oxygen to the deeper waters for fish survival and (2) to maintain an aerobic environment throughout the lake to prevent the release and distribution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





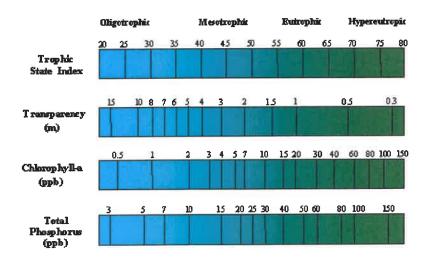
Algae and Aquatic Weeds

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.



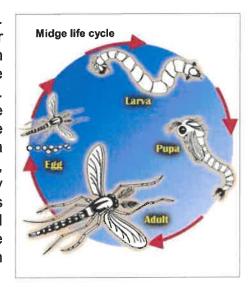
The Trophic Status report addendum provides each of these values for the sampling sites. For southern Arizona, a TSI of less than 60 is the target for reasonable aesthetic quality. Fisheries often flourish when TSI values are in the 55 to 65 range. Severe aesthetic and recreational problems occur when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

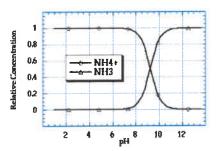
July 2023 Report Narrative Summary

The following pages provide a summary of the monthly survey results. Comprehensive analyses were conducted on Lakes 1-4 on 06 July 2023. A brief narrative description is provided for each lake. Data are additionally qualified in the Lake Report Card (See Supporting Documentation). Lakes 1-8 received visual examination and basic water quality testing on 06 and 27 July 2023.

Lakes 1-4

Lake 1

Lake 1 exhibited no thermal stratification and no significant loss of oxygen in the deep waters (see attached profiles). The surface dissolved oxygen concentrations (6.3-6.4 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 moderate at 8.1 to 8.4 SU and indicated a low to moderate suspended algae density. Low pH is advantageous because it prevents conversion of ammonium ions (NH_4^+) to toxic (to aquatic animals) ammonia (NH_3) gas (see figure below). Transparency (Secchi disk depth) improved to 1.9 m (6.2 ft) and turbidity remained low at 3.0-5.6 NTU.



Alkalinity (135 mg/L as CaCO₃) and hardness (188 mg/L as CaCO₃) decreased slightly. Values are typical and expected from most waters in central Arizona. The total dissolved solids (mineral) concentration of the lake decreased and remained acceptable at 484 mg/L.

Midge fly

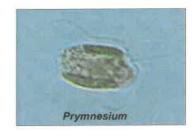
Waterfowl density ranged from one (1) to two (2) per acre which is considered in the excellent range (Arizona Game & Fish Department rating system). No cormorants were observed.

Midge fly density decreased and remained low (40/m²) and should produce no issues to lakeside residents or visitors.

Bio-available nitrogen and total nitrogen decreased slightly to 0.24 mg/L and 1.27 mg/L, respectively. Phosphorus concentration was stable and low at 0.016 mg/L. Ammonia was minimal at 0.07 mg/L. At ambient temperature and pH, no toxicity issues would result. Chlorophyll concentration, indicative of algal biomass, was low and stable at 1.60 ug/L. Algae density was correspondingly low (2.21 x 10³ cells/mL). The dominant alga

was *Merismopedia* (Cyanophyta colony). It can become problematic causing very turbid water. However, total density was sufficiently low to prevent that occurrence. The golden alga, *Prymnesium parvum*, was not observed. *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 to 43 (range 35-51), with the lake remaining in the mesotrophic category. Decreased phosphorus and improved transparency were the responsible factors for the TSI decrease. The lake improved in clarity and became more aesthetically pleasing, but could develop anoxia in the deep waters during the summer. It should be, otherwise, supportive of the fishery.

The *E. coli* concentration was 2 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 single sample maxima are 410 and 575 for FBC and PBC recreation (ARS, Dec 2022).

The Lake Report Card value for July 2023 was 50; down two (2) units from May, but keeping the lake in the "excellent" category.

Lake 2

Lake 2 was vertically mixed. No substantial loss of oxygen in the deep waters occurred (see attached profiles). The surface dissolved oxygen concentrations (6.2-6.3 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 variable and in the range of 8.1-8.4 SU, and indicated little change 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) improved to 0.86 m (2.8 ft) and turbidity ranged from 6.1 to 7.5 NTU.

Alkalinity (135 mg/L as CaCO₃) and hardness (215 mg/L as CaCO₃) were typical and remained elevated, as would be expected from most waters in central Arizona. The total dissolved solids (mineral) concentration increased slightly to 576 mg/L.

Midge fly density remained quite low (<40/m²) and should produce no issues to lakeside residents or visitors. Maximum waterfowl density was two (2) birds per acre which is considered in the excellent range (Arizona Game & Fish Department rating system). No cormorants were noted.

Bio-available nitrogen concentration was stable at 0.27 mg/L. Total nitrogen decreased slightly to 1.39 mg/L. Phosphorus concentration had a small increase to 0.024 mg/L; a very desirable concentration. Ammonia concentration was 0.08 mg/L. At ambient temperature and pH, no toxicity issues would result.

Chlorophyll concentration, indicative of algal biomass, remained very low at 1.92 ug/L. Algae density decreased to 1.99 x 10³ cells/mL. *Merismopedia* was the dominant form. The alga can cause problems, but unlikely to do so at the density measured. 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 increased four (4) units to 50 (range 37-61), and continued to place the lake in the mesotrophic category. These lakes are more desirable for an urban lake in terms of aesthetics, and can still support a fishery. They sometimes tend to have dominance of blue-green algae, as was the case during the month.

The *E. coli* concentration was 2 MPN/100 mL and met the single-sample full body contact (swimming) and partial body contact (fishing and boating) recreation standards.

The Lake Report Card value for July 2023 was 46, a three unit increase compared to May 2023 data. The lake remained within the "good" category.

Lake 3

Lake 3 exhibited no thermal stratification (vertically mixed) and had a modest loss of oxygen (0.6 mg/L) in the deep waters (see attached profiles). The surface dissolved oxygen concentrations (6.1-6.2 mg/L) met the minimum target of 6.0 mg/L desired to protect the fishery. No fish stress was observed. Water pH ranged from 8.2 to 8.3 SU and reflected stabilizing conditions. Low pH is more advantageous because it prevents conversion of ammonium ions (NH $_4$) to toxic (to aquatic animals) ammonia (NH $_3$) gas. Transparency (Secchi disk depth) improved to 2.23 m (7.2 ft). Turbidity was moderate (4.0-7.7 NTU) during the month.

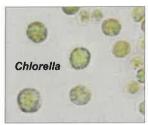
Waterfowl density was less two to three birds per acre (2-3/A) which is considered excellent (Arizona Game & Fish Department rating system). No cormorants were observed.

Midge fly density was low (<40/m²) and should produce no issues to lakeside residents or visitors.

Alkalinity (144 mg/L as CaCO₃) and hardness (206 mg/L as CaCO₃) were fairly 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 468 mg/L.

Bio-available nitrogen concentration was stable at 0.28 mg/L, and total nitrogen increased to 1.51 mg/L. Phosphorus concentration decreased to 0.013 mg/L. The ammonia concentration was 0.07 mg/L and would not create any toxicity issues at ambient temperature and pH.

Chlorophyll concentration, indicative of algal biomass, decreased to 1.16 ug/L. Algae density correspondingly decreased to 1.87 x 10³ cells/mL. The dominant alga was *Chlorella*, a relatively benign green (Chlorophyta) unicellular form. No significant issues with the algae occurred. Golden algae were absent.



The mean TSI value decreased significantly to 41 (range 32-48), with the lake remaining in the mesotrophic category. Improved clarity and decreased phosphorus were responsible for the change in score.

The *E. coli* concentration was 2 MPN/100 mL and met partial body contact recreation limits.

The Lake Report Card value for July 2023 was 50, up three units compared to May 2023 and moving the lake into the "excellent" category.

Lake 4

Lake 4 had a weak thermocline at about one meter depth. There was little loss of oxygen in the deep water (see attached profiles). The dissolved oxygen concentrations were reduced at 5.6-6.8 mg/L. Concentrations were below the target of 6.0 mg/L, but fish activity appeared normal. Water pH ranged from 8.1-8.3 SU and indicated a low to moderate algae density and a small change in water quality. Water transparency decreased to 0.89m (2.9 ft). Turbidity increased to 5.5 to 6.5 NTU.

Waterfowl density was 2.6 birds per acre which is considered excellent to fair by the 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.

Bio-available and total nitrogen concentrations were stable at 0.27 and 1.40 mg/L, respectively. Phosphorus concentration doubled to 0.033 mg/L. The ammonia concentration remained low (0.07 mg/L). At ambient pH and temperature, acute or chronic ammonia toxicity to fish would not occur.

Algae density decreased to 1.17×10^3 cells/mL. The dominant alga was *Chlorella*. The chlorophyll-a concentration (biomass indicator) decreased to 1.20 ug/L; a significant drop. The potentially toxic golden alga (*Prymnesium parvum*) was not present during the month.

The mean TSI value increased four (4) units to 50 (range 32-62), but maintaining the lake in the mesotrophic category. The value indicates the lake should be much more desirable in terms of aesthetics, but possibly less supportive of a robust fishery. The *E. coli* concentrations were 7 and 99 MPN/100 mL. The measurements met the bacteria maximum for partial body contact recreation (fishing and boating).

The Lake Report Card value for July 2023 was 46, showing a three-unit decrease from May. The lake remained within the "good" category.

Lakes 5-8

Lake 5

The Lake 1 temperature remained low and ranged from 30.0 C to 32.7 C (86-91 F). Water pH was 8.0-8.2 SU indicating low to moderate algae density. Dissolved oxygen (5.1-5.5 mg/L) was below the target concentration for the fishery, but fish activity appeared normal. Decreases in dissolved oxygen concentration often occur during the summer because of increased respiration and decomposition rates at higher temperatures and the inability of warm water to hold more dissolved oxygen than cold water. Transparency was about one meter and turbidity ranged from 5.5 to 7.3 NTU.

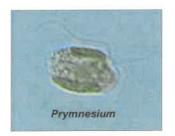
Waterfowl mean density was Less than three (3) per acre which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

Waterfowl Density Ranking System (AZG&FD)

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

No abnormal algae growths or submerged weeds were observed. The green colony, *Sphaerocystis*, dominated the phytoplankton. Cell density was low (1.17 x 10³ cells/mL). No golden algae (*Prymnesium parvum* or related species) were detected.





Lake 6

The water temperature of Lake 6 was 31.8-33.1 C (89-92 F). Water pH was 8.4 SU, indicating possible increased algae density. Dissolved oxygen (7.0-8.0 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was approximately one meter, but turbidity increased to 8.5-9.3 NTU.

Two to four (2-4) waterfowl per acre were observed and the density is considered good for an urban lake. 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 *Pediastrum*, a green (Chlorophyta) colony. The alga is rarely problematic. Total cell density increased in the lake (1.42 x 10⁴ cells/mL). No golden algae (*Prymnesium parvum* or related species) were detected.



Lake 7

Lake temperature range was 30.0 to 33.1 C (86-92 F). Water pH ranged from 8.2-8.4 SU. Dissolved oxygen concentration ranged from 6.5 to 6.9 mg/L and remained satisfactory for the fishery. Fish activity appeared normal. Transparency was stable at about one meter. Turbidity ranged from 2.8-4.6 NTU. The fountain was operating during the reporting period.

Waterfowl density was <1 per acre; an "excellent" rating. Minimal cormorants were observed. Decreased numbers of waterfowl was expected outside the migratory season. 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. During July, *Merismopedia*, was the dominant alga. The total cell density for the algae community was moderate at 7.59 x 10⁴ cells/mL. The density of Merismopedia should be carefully monitored because it can cause highly turbid water. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 8

The temperature of Lake 8 ranged from 32.8-34.0 C (91-93 F). Water pH was moderate at 8.0-8.2 SU and indicated a low to moderate algae density. Dissolved oxygen (5.3-6.8 mg/L) was marginally satisfactory for the fishery and fish activity appeared normal. Transparency was vastly improved to well over a meter and turbidity remained low (1.8-3.8 NTU). Fountains were in operation.

Waterfowl density was about five per acre which is considered poor. No cormorant issues were reported. 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. *Merismopedia*, a sometimes problematic blue-green colony, was the dominant alga. The total phytoplankton density was moderate at 4.11 x 10⁴ cells/mL). No golden algae (*Prymnesium parvum* or related species) were detected.

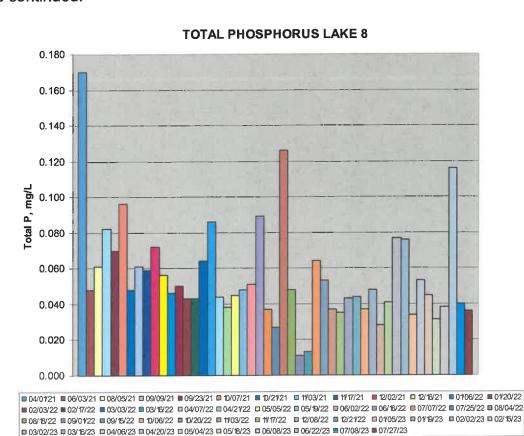
Special Testing

E. coli bacteria and total phosphorus were measured in Lake 8 on two dates during the month. Data are presented below.

Date	E. coli, MPN/100 mL)	Phosphorus, mg/L
07-06-23	272	0.040
07-27-23	99	0.036

The measured bacteria concentrations are below the levels established for partial and full body contact recreation by the State, based on a single-sample maximum.

The phosphorus concentrations in Lake 8 during the recent study period were fairly stable. Noting the Phoslock® application occurred on 29 November 2021, no dramatic reduction in phosphorus is shown in the figure below. However, the impact may be more long-term if it reduces recycling of phosphorus from the sediment. Data collection will be continued.



Next Month:

Lakes 5-8 are scheduled for comprehensive monitoring next month. All lakes will be visually inspected and field data collected two times during the month. Additional monitoring of Lake 8 phosphorus and *E. coli* will continue.

Frederick Amalfi #91-01M

Certified Lake Manage

Respectfully:

Aquatic Consulting & Testing, Inc.

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

DOBSON RANCH REPORT CARD

DATE OF EVALUATION:		Jul-23	CONDITION	GOOD	SCORE	20	46	20	46
PREVIOUS EVALUATION:	Last complete	May-23	CONDITION	G000	SCORE	52	49	47	49
		4 pts	3 pts	2 pts	1 pt	SCORE	SCORE	SCORE	SCORE
CONDITION	RATIONALE	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	2	2	2
Dissolved oxygen (mg/L) @1m	aquatic life, sediment nutrient release, odors	>7.0	5.6-6.9	4.0-5.5	<4.0	က	က	က	m
Nitrogen, total (mg/L)	algae and macrophyte growth	<0.5	0.5-1.0	1.0-2.0	>2.0	2	2	2	2
Phosphorus, total (mg/L)	algae and macrophyte growth	<0.03	0.03-0.05	0.06-0.10	>0.10	4	4	4	က
Turbidity (NTU) avg.	aesthetics, State std	<5	5-10	11-20	>20	4	က	4	က
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 10⁴	5x104 - 9x104	1 x 10 ⁵ -5x 10 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	8	2	4	4
pH (SU) avg.	swimming, fishery, ammonia toxicity	6.5-8.0	8.1-8.5	8.6-9.0	>9.0	ო	m	က	m
Carlson Trophic Status	eutrophication	<50	20-60	61-70	>70	4	က	4	က
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	9<	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 aloae scums	most of lake shore covered with crusts or scums	4	4	4	4

Peor	<30
Fair	30-40
Good	41-49
Excellent	50-56
SCORING KEY:	

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.

Macrophyte: Large plant, observable without the aid of a microscope, that may be floating, submerged or emergent. Fecal bacteria: Any of the bacteria types provided by the fecal matter of warm-blooded organisms.

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

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

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.

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

Furbidity: 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-Jul-23

	LAKE	LAKE	LAKE	LAKE		
PARAMETER	1	2	3	4		
Secchi Disk Depth (m)	1.90	0.86	2.23	0.89		
Phosphorus, total (ug/L)	16	24	13	33		
Chlorophyll-a (ug/L)	1.6	1.9	1.2	1.2		
,						
	LAKE	LAKE	LAKE	LAKE		
TSI VALUES	1	2	3	4		
Secchi Disk Depth	51	62	48	62		
Phosphorus, total	44	50	41	55		
Chlorophyll-a	35	37	32	32		
					average	
AVERAGE	43	50	41	50	46	

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.

SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents



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: 07/06/23
Date Reported: 08/09/23

Attn: Lynelle Glysson, Community Mgr

Project: Monthly Lake 1-4 Monitoring

RESULTS

Sample Type: Surface Water Client ID: Lake 1 Sample Time: 07/06/23 08:00 ACT Lab No.: CF04725 **Analysis Date** Method No. Result Unit Start End Parameter cells/mL SM 10200 F See Attached 07/21/23 07/21/23 Algae Count See Attached 07/21/23 07/21/23 Algae Identification SM10200 H 1.50 08/25/23 07/25/23 Chl/Pheo Ratio 1.60 ug/L SM10200 H 07/25/23 07/25/23 Chlorophyll a **Absent** Pres/Abs P/C Microscopy 07/06/23 07/06/23 Golden Algae #/sq. meter SM10500 C 40 07/06/23 07/06/23 Midge count SM10200 H 0.64 ug/L 07/25/23 07/25/23 Pheophytin a SM4500 O G mg/L as O2 6.4 07/06/23 07/06/23 Oxygen, Dissolved Field SU 07/06/23 07/06/23 SM4500H+ B 8.1 pH, Field 1.9 meters 07/06/23 07/06/23 **NALMS** Secchi Disk Depth 30.4 C 07/06/23 07/06/23 SM2550 B Temperature, Field SM 2320 B mg/L as CaCO3 135. 07/13/23 07/13/23 Alkalinity, Total mg/L as N SM4500NH3 D 0.07 07/11/23 07/11/23 Ammonia - N **SM4500NO3 E** 0.17 mg/L as N 07/16/23 07/16/23 Nitrate + Nitrite - N mg/L as P 0.016 365.3 Phosphorus, Total 07/13/23 07/15/23 mg/L as CaCO3 SM2340C 188. 07/13/23 07/13/23 **Total Hardness** mg/L as N SMNorg C,NH3 C/D 1.1 07/11/23 07/11/23 Total Kjeldahl Nitrogen 2 MPN/100 mL 07/06/23 07/07/23 SM 9223 B E. coli, Colilert 07/14/23 07/16/23 SM2540 C 484. ma/L **Total Dissolved Solids** NTU 3.0 07/06/23 07/06/23 180.1 **Turbidity**

Client ID: Lake 2	Sample Type: Surface Water
ACT Lab No.: CF04726	Sample Time: 07/06/23 08:20

	Analys	is Date			
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Algae Count	07/21/23	07/21/23	SM 10200 F	See Attached	cells/mL
Algae Identification	07/21/23	07/21/23		See Attached	
Chl/Pheo Ratio	08/25/23	07/25/23	SM10200 H	1.50	
Chlorophyll a	07/25/23	07/25/23	SM10200 H	1.92	ug/L
Golden Algae	07/06/23	07/06/23	P/C Microscopy	Absent	Pres/Abs
Midge count	07/06/23	07/06/23	SM10500 C	<40	#/sq. meter
Pheophytin a	07/25/23	07/25/23	SM10200 H	0.77	ug/L
Oxygen, Dissolved Field	07/06/23	07/06/23	SM4500 O G	6.2	mg/L as O2
pH, Field	07/06/23	07/06/23	SM4500H+ B	8.1	SU
Secchi Disk Depth	07/06/23	07/06/23	NALMS	0.86	meters
Temperature, Field	07/06/23	07/06/23	SM2550 B	30.8	С
Alkalinity, Total	07/13/23	07/13/23	SM 2320 B	135.	mg/L as CaCO3
Ammonia - N	07/11/23	07/11/23	SM4500NH3 D	80.0	mg/L as N
Nitrate + Nitrite - N	07/16/23	07/16/23	SM4500NO3 E	0.19	mg/L as N
Phosphorus, Total	07/13/23	07/15/23	365.3	0.024	mg/L as P
Total Hardness	07/13/23	07/13/23	SM2340C	215.	mg/L as CaCO3
Total Kjeldahl Nitrogen	07/11/23	07/11/23	SMNorg C,NH3 C/D	1.2	mg/L as N
E. coli, Colilert	07/06/23	07/07/23	SM 9223 B	12	MPN/100 mL
Total Dissolved Solids	07/14/23	07/16/23	SM2540 C	576 .	mg/L
Turbidity	07/06/23	07/06/23	180.1	7.5	NTU

Client ID: Lake 3 Sample Type: Surface Water ACT Lab No.: CF04727 Sample Time: 07/06/23 09:00

Analys	is Date			
<u>Start</u>	_End_	Method No.	Result	<u>Unit</u>
07/21/23	07/21/23	SM 10200 F	See Attached	cells/mL
07/21/23	07/21/23		See Attached	
08/25/23	07/25/23	SM10200 H	1.45	
07/25/23	07/25/23	SM10200 H	1.16	ug/L
07/06/23	07/06/23	P/C Microscopy	Absent	Pres/Abs
07/06/23	07/06/23	SM10500 C	<40	#/sq. meter
07/25/23	07/25/23	SM10200 H	0.62	ug/L
07/06/23	07/06/23	SM4500 O G	6.2	mg/L as O2
07/06/23	07/06/23	SM4500H+ B	8.2	SU
07/06/23	07/06/23	NALMS	2.23	meters
07/06/23	07/06/23	SM2550 B	31.0	С
07/13/23	07/13/23	SM 2320 B	144.	mg/L as CaCO3
07/11/23	07/11/23	SM4500NH3 D	0.07	mg/L as N
07/16/23	07/16/23	SM4500NO3 E	0.21	mg/L as N
07/13/23	07/15/23	365.3	0.013	mg/L as P
07/13/23	07/13/23	SM2340C	206.	mg/L as CaCO3
07/11/23	07/11/23	SMNorg C,NH3 C/D	1.3	mg/L as N
07/06/23	07/07/23	SM 9223 B	2	MPN/100 mL
07/14/23	07/16/23	SM2540 C	468.	mg/L
07/06/23	07/06/23	180.1	4.0	NTU
	Start 07/21/23 07/21/23 07/25/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/13/23 07/11/23 07/13/23 07/13/23 07/11/23 07/13/23 07/11/23 07/11/23	07/21/23 07/21/23 07/21/23 07/21/23 08/25/23 07/25/23 07/25/23 07/25/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/06/23 07/13/23 07/11/23 07/11/23 07/11/23 07/13/23 07/15/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/11/23 07/06/23 07/07/23 07/14/23 07/16/23	Start End Method No. 07/21/23 07/21/23 SM 10200 F 07/21/23 07/21/23 SM 10200 H 07/25/23 07/25/23 SM10200 H 07/06/23 07/06/23 SM10200 H 07/06/23 07/06/23 P/C Microscopy 07/06/23 07/06/23 SM10500 C 07/06/23 07/06/23 SM4500 O G 07/06/23 07/06/23 SM4500 H B 07/06/23 07/06/23 NALMS 07/06/23 07/06/23 SM2550 B 07/13/23 07/13/23 SM 2320 B 07/11/23 07/11/23 SM4500NH3 D 07/16/23 07/16/23 SM4500NO3 E 07/13/23 07/15/23 SM2340C 07/11/23 07/11/23 SMNorg C,NH3 C/D 07/06/23 07/07/23 SM 9223 B 07/14/23 07/16/23 SM2540 C	Start End Method No. Result 07/21/23 07/21/23 SM 10200 F See Attached 07/21/23 07/21/23 See Attached 08/25/23 07/25/23 SM10200 H 1.45 07/05/23 07/06/23 SM10200 H 1.16 07/06/23 07/06/23 P/C Microscopy Absent 07/06/23 07/06/23 SM10500 C <40

Algae Identification 07/21/23 07/21/23 See Attache Chl/Pheo Ratio 08/25/23 07/25/23 SM10200 H 1.45 Chlorophyll a 07/25/23 07/25/23 SM10200 H 1.20 Golden Algae 07/06/23 07/06/23 07/06/23 P/C Microscopy Absent Midge count 07/06/23 07/06/23 SM10500 C <40 Pheophytin a 07/25/23 07/25/23 SM10200 H 0.65 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.8 PH, Field 07/06/23 07/06/23 SM4500 O G 5.8 PH, Field 07/06/23 07/06/23 SM4500 H B 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM4500 H B 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Nitrate + Nitrite - N 07/13/23 07/13/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SM090C C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/06/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 SM2540 C 880. Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1		e Water 23 09:30		Client ID: Lake 4 ACT Lab No.: CF04728				
Algae Count Algae Identification O7/21/23 O7/21/23 O7/21/23 O7/21/23 O7/21/23 See Attache Chil/Pheo Ratio O8/25/23 O7/25/23 SM10200 H 1.45 Chlorophyll a O7/25/23 O7/25/23 SM10200 H 1.20 Golden Algae O7/06/23 O7/06/23 O7/06/23 O7/06/23 SM10500 C 440 Pheophytin a O7/25/23 O7/25/23 SM10500 C 440 Pheophytin a O7/25/23 O7/06/23 SM4500 O G 5.8 PH, Field O7/06/23 O7/06/23 SM4500 O G 5.8 PH, Field O7/06/23 O7/06/23 SM4500 H B 8.1 Secchi Disk Depth O7/06/23 O7/06/23 SM4500 H B 8.1 Secchi Disk Depth O7/06/23 O7/06/23 SM2550 B 31.1 Alkalinity, Total O7/13/23 O7/13/23 SM2550 B 31.1 Alkalinity, Total O7/13/23 O7/11/23 SM2500 B 140. Ammonia - N O7/11/23 O7/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N O7/16/23 O7/16/23 O7/16/23 SM4500NO3 E 0.20 Phosphorus, Total O7/13/23 O7/11/23 SM2540 C 197. Total Kjeldahl Nitrogen O7/11/23 O7/11/23 SM2340 C 197. Total Kjeldahl Nitrogen O7/11/23 O7/11/23 SM2340 C 197. Total Kjeldahl Nitrogen O7/11/23 O7/11/23 SM2540 C 880. Turbidity O7/06/23 O7/06/23 O7/06/23 P/C Microscopy Absent Oxygen, Dissolved Field O7/06/23 O7/06/23 O7/06/23 SM4500 O G 5.1				is Date	Analys			
Algae Identification 07/21/23 07/25/23 SM10200 H 1.45 Chl/Pheo Ratio 08/25/23 07/25/23 SM10200 H 1.45 Chlorophyll a 07/25/23 07/25/23 SM10200 H 1.20 Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Midge count 07/06/23 07/06/23 SM10500 C <40 Pheophytin a 07/25/23 07/25/23 SM10200 H 0.65 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.8 PH, Field 07/06/23 07/06/23 SM4500 H 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM4500 H 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM2500 B 31.1 Alkalinity, Total 07/13/23 07/16/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Almmonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/11/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SM390C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 SM2540 C 880. Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	t <u>Unit</u>	Result	Method No.	<u>End</u>	<u>Start</u>	<u>Parameter</u>		
Chl/Pheo Ratio O8/25/23 07/25/23 SM10200 H 1.45 Chlorophyll a 07/25/23 07/25/23 SM10200 H 1.20 Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Midge count 07/06/23 07/06/23 SM10500 C <40 Pheophytin a 07/25/23 07/25/23 SM10200 H 0.65 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.8 PH, Field 07/06/23 07/06/23 SM4500 O G 5.8 PH, Field 07/06/23 07/06/23 SM4500 H 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM4500 H 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/06/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 SM2540 C 880. Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	ached cells/mL	See Attached	SM 10200 F	07/21/23	07/21/23	Algae Count		
Chlorophyll a 07/25/23 07/25/23 SM10200 H 1.20 Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Midge count 07/06/23 07/06/23 SM10500 C <40 Pheophytin a 07/25/23 07/25/23 SM10200 H 0.65 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.8 pH, Field 07/06/23 07/06/23 SM4500 O G 5.8 pH, Field 07/06/23 07/06/23 SM4500 H 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM4500 H B 8.1 Secchi Disk Depth 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/06/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 SM2540 C 880. Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	iched	See Attached		07/21/23	07/21/23	Algae Identification		
Golden Algae O7/06/23 07/06/23 P/C Microscopy Absent Midge count O7/06/23 07/06/23 SM10500 C <40 Pheophytin a O7/25/23 07/25/23 SM10200 H O.65 Oxygen, Dissolved Field O7/06/23 07/06/23 SM4500 O G S.8 pH, Field O7/06/23 07/06/23 SM4500 H S.1 Secchi Disk Depth O7/06/23 07/06/23 SM4500 H S.1 Secchi Disk Depth O7/06/23 07/06/23 SM4500 H S.1 Alkalinity, Total Alkalinity, Total O7/13/23 07/13/23 SM2550 B O7/13/23 O7/13/23 SM2550 B O7/13/23 O7/13/23 SM4500NH3 D O7/11/23 O7/13/23 SM4500NH3 D O7/11/23 O7/13/23 SM4500NH3 D O7/11/23 O7/15/23 SM4500NH3 D O7/11/23 O7/15/23 SM4500NO3 E O20 Phosphorus, Total O7/13/23 07/15/23 SM4500NO3 E O20 Phosphorus, Total O7/13/23 07/15/23 SM2340C O7/06/23 O7/13/23 SM2340C O7/06/23 O7/13/23 SM2340C O7/06/23 O7/11/23 SMNorg C,NH3 C/D O7/06/23 O7/06/23 O7/07/23 SM 9223 B O7/06/23 O7/06/23 SM2540 C O7/06/23 O7/06/23 O7/06/23 SM2540 C OXUBER OF CONTROL OF			SM10200 H	07/25/23	08/25/23	Chl/Pheo Ratio		
Midge count 07/06/23 07/06/23 SM10500 C <40	-		SM10200 H	07/25/23	07/25/23	Chlorophyll a		
Pheophytin a 07/25/23 07/25/23 SM10200 H 0.65 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.8 pH, Field 07/06/23 07/06/23 SM4500H+ B 8.1 Secchi Disk Depth 07/06/23 07/06/23 NALMS 0.89 Temperature, Field 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM 2320 B 140. Ammonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/13/23 SM2540C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/06/23 SM2240 C 880. Turbidity 07/06/23 07/06/23 SM2240 C 880. Client ID: Lake 5 ACT Lab No.: CF04729 Parameter Start End Method No. Result Golden Algae 07/06/23 07/06/23 SM4500 O G 5.1		Absent	P/C Microscopy	07/06/23	07/06/23	Golden Algae		
Oxygen, Dissolved Field	•	<40	SM10500 C	07/06/23	07/06/23	Midge count		
DH, Field Secchi Disk Depth O7/06/23 O7/06/23 SM4500H+ B 8.1 Secchi Disk Depth O7/06/23 Temperature, Field O7/06/23 O7/06/23 SM2550 B 31.1 Alkalinity, Total Alkalinity, Total O7/13/23 O7/13/23 O7/13/23 SM 2320 B 140. Ammonia - N O7/11/23 O7/11/23 O7/11/23 O7/11/23 SM4500NH3 D O.07 Nitrate + Nitrite - N O7/16/23 O7/16/23 O7/16/23 O7/16/23 SM4500NO3 E O.20 Phosphorus, Total O7/13/23 O7/13/23 O7/15/23 O7/15/23 O7/13/23 SM2340C 197. Total Hardness O7/13/23 O7/11/23 O7/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert O7/06/23 O7/07/23 SM 9223 B Total Dissolved Solids O7/17/23 O7/17/23 O7/18/23 SM2540 C 880. Turbidity O7/06/23 O7/06/23 O7/06/23 O7/06/23 Tender Type: Surface Water Sample Time: O7/06/23 09:40 Analysis Date Start End Method No. Result Method No. Result Oxygen, Dissolved Field O7/06/23 O7/06/23 O7/06/23 SM4500 O G 5.1	5 ug/L	0.65	SM10200 H	07/25/23	07/25/23	Pheophytin a		
Secchi Disk Depth 07/06/23 07/06/23 07/06/23 NALMS 0.89 Temperature, Field 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM 2320 B 140. Ammonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Sample Type: Surface Water Analysis Date Method No. Result Go	mg/L as O2	5.8	SM4500 O G	07/06/23	07/06/23	Oxygen, Dissolved Field		
Temperature, Field 07/06/23 07/06/23 SM2550 B 31.1 Alkalinity, Total 07/13/23 07/13/23 SM 2320 B 140. Ammonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 SM4500 O G 5.1 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	SU	8.1	SM4500H+ B	07/06/23	07/06/23	pH, Field		
Alkalinity, Total 07/13/23 07/13/23 SM 2320 B 140. Ammonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 SM4500 O G 5.1 Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	9 meters	0.89	NALMS	07/06/23	07/06/23	Secchi Disk Depth		
Ammonia - N O7/11/23 O7/11/23 SM4500NH3 D O.07 Nitrate + Nitrite - N O7/16/23 O7/16/23 SM4500NO3 E O.20 Phosphorus, Total O7/13/23 O7/15/23 O7/15/23 O7/15/23 O7/15/23 O7/13/23 O7/13/23 O7/13/23 O7/13/23 SM2340C O7/11/23 SMNorg C,NH3 C/D O7/11/23 E. coli, Colilert O7/06/23 O7/07/23 SM 9223 B O7/06/23 O7/07/23 SM 9223 B O7/06/23 O7/06/23 O7/06/23 O7/06/23 O7/06/23 O7/06/23 O7/06/23 SM2540 C Sample Type: Surface Water Sample Time: O7/06/23 09:40 Analysis Date Start End Method No. Result Golden Algae O7/06/23 O7/06/23 O7/06/23 SM4500 O G S.1	1 C	31.1	SM2550 B	07/06/23	07/06/23	Temperature, Field		
Ammonia - N 07/11/23 07/11/23 SM4500NH3 D 0.07 Nitrate + Nitrite - N 07/16/23 07/16/23 SM4500NO3 E 0.20 Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	mg/L as CaCO3	140.	SM 2320 B	07/13/23	07/13/23	Alkalinity. Total		
Phosphorus, Total 07/13/23 07/15/23 365.3 0.033 Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5 ACT Lab No.: CF04729 Sample Type: Surface Water Sample Time: 07/06/23 09:40 Parameter Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	7 mg/L as N	0.07	SM4500NH3 D	07/11/23	07/11/23			
Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5 ACT Lab No.: CF04729 Sample Type: Surface Water Sample Time: 07/06/23 09:40 Parameter Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1) mg/L as N	0.20	SM4500NO3 E	07/16/23	07/16/23	Nitrate + Nitrite - N		
Total Hardness 07/13/23 07/13/23 SM2340C 197. Total Kjeldahl Nitrogen 07/11/23 07/11/23 SMNorg C,NH3 C/D 1.2 E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5	3 mg/L as P	0.033	365.3	07/15/23	07/13/23	Phosphorus, Total		
E. coli, Colilert 07/06/23 07/07/23 SM 9223 B 7 Total Dissolved Solids 07/17/23 07/18/23 SM2540 C 880. Turbidity 07/06/23 07/06/23 180.1 6.6 Client ID: Lake 5	mg/L as CaCO3	197.	SM2340C	07/13/23	07/13/23	·		
Client ID: Lake 5 Sample Type: Surface Water Sample Time: 07/06/23 09:40 Parameter Start End Method No. Result Golden Algae 07/06/23 07/06/	mg/L as N	1.2	SMNorg C,NH3 C/D	07/11/23	07/11/23	Total Kjeldahl Nitrogen		
Client ID: Lake 5 Sample Type: Surface Water Sample Time: 07/06/23 09:40 ACT Lab No.: CF04729 Analysis Date Start End Method No. Result Golden Algae 07/06/23 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	MPN/100 mL	7	SM 9223 B	07/07/23	07/06/23	E. coli, Colilert		
Client ID: Lake 5 Sample Type: Surface Water Sample Time: 07/06/23 09:40 Parameter Start End Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	. mg/L	880.	SM2540 C	07/18/23	07/17/23	Total Dissolved Solids		
ACT Lab No.: CF04729 Sample Time: 07/06/23 09:40 Analysis Date Date Method No. Result Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	NTU	6.6	180.1	07/06/23	07/06/23	Turbidity		
ParameterStartEndMethod No.ResultGolden Algae07/06/2307/06/23P/C MicroscopyAbsentOxygen, Dissolved Field07/06/2307/06/23SM4500 O G5.1								
Golden Algae 07/06/23 07/06/23 P/C Microscopy Absent Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1	1124	5 "			-			
Oxygen, Dissolved Field 07/06/23 07/06/23 SM4500 O G 5.1								
Chygen, Blackwar I old		Absent	P/C Microscopy	07/06/23	07/06/23	Golden Algae		
pH Field 07/06/23 07/06/23 SM4500H+ B 8.0	_			07/06/23	07/06/23	Oxygen, Dissolved Field		
pri, riola		8.0	SM4500H+ B	07/06/23	07/06/23	pH, Field		
Temperature, Field 07/06/23 07/06/23 SM2550 B 30.0) С	30.0	SM2550 B	07/06/23	07/06/23	Temperature, Field		
Turbidity 07/06/23 07/06/23 180.1 7.3	NTU	7.3	180.1	07/06/23	07/06/23	Turbidity		

Client ID: Lake 6 ACT Lab No.: CF04730			Sample Type: Surfact Sample Time: 07/06/		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	07/06/23	07/06/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/06/23	07/06/23	SM4500 O G	8.0	mg/L as O2
pH, Field	07/06/23	07/06/23	SM4500H+ B	8.4	SU
Temperature, Field	07/06/23	07/06/23	SM2550 B	31.8	С
Turbidity	07/06/23	07/06/23	180.1	8.5	NTU
Client ID: Lake 7 ACT Lab No.: CF04731			Sample Type: Surfact Sample Time: 07/06/		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	07/06/23	07/06/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/06/23	07/06/23	SM4500 O G	6.5	mg/L as O2
pH, Field	07/06/23	07/06/23	SM4500H+ B	8.2	SU
Temperature, Field	07/06/23	07/06/23	SM2550 B	30.0	С
Turbidity	07/06/23	07/06/23	180.1	4.6	NTU
Client ID: Lake 8 ACT Lab No.: CF04732			Sample Type: Surfact Sample Time: 07/06/		
7,01	Analys	is Date			
Parameter	Start	_End_	Method No.	Result	<u>Unit</u>
Golden Algae	07/06/23	07/06/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/06/23	07/06/23	SM4500 O G	6.8	mg/L as O2
pH, Field	07/06/23	07/06/23	SM4500H+ B	8.0	SU
Temperature, Field	07/06/23	07/06/23	SM2550 B	34.0	С
Phosphorus, Total	07/13/23	07/15/23	365.3	0.040	mg/L as P
E. coli, Colilert	07/06/23	07/07/23	SM 9223 B	272	MPN/100 mL
Turbidity	07/06/23	07/06/23	180.1	3.8	NTU

Reviewed by:

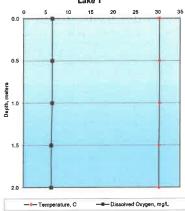
Frederick A. Amalfi, Ah.D. Laboratory Director

Field Data for 07-06-23 Sampling Event Aquatic Consulting & Teating, Inc.

DOBSON RANCH LAKE 1

Depth, m	Temp, C	Oxygen, mg/L
0.0	30.4	6.4
0.5	30.4	6.4
1.0	30.4	6.4
1.5	30.3	6.2
2.0	30.3	6.2

DOBSON RANCH TEMPERATURE-OXYGEN PROFILE Lake 1

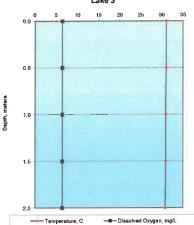


Field Data for 07-06-23 Sampling Event

DOBSON RANCH LAKE 3

Depth, m	Temp, C	Oxygen, mg/L
0.0	31.0	6.4
0.5	31.0	6.4
1.0	30.9	6.4
1.5	30.9	6.4
2.0	30.8	8.4

DOBSON RANCH TEMPERATURE-OXYGEN PROFILE Lake 3

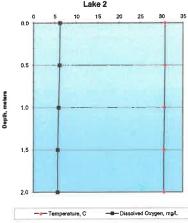


Field Data for 07-06-23 Sampling Event Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 2

Depth, m	Temp, C	Oxygen, mg/L
0.0	30.8	6.2
0.5	30.8	6.1
1.0	30.7	5.9
1.5	30.6	5.7
2.0	30 B	5.7

DOBSON RANCH TEMPERATURE-OXYGEN PROFILE Lake 2

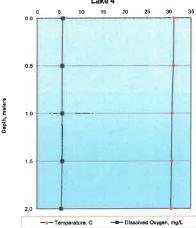


Field Data for 07-06-23 Sampling Event Aquatic Consulting & Testing, Inc.

DOBSON RANCH LAKE 4

Depth, m	Temp, C	Oxygen, mg/L
0.0	31.1	5,8
0.5	31.0	5.7
1.0	30.7	5.7
1.5	30.6	5.7
2.0	30.5	5.5

DOBSON RANCH TEMPERATURE-OXYGEN PROFILE Lake 4



AC&T Lab No.	CF-04725	Date Collected	07/06/23
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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	2	74	3.33%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chi-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	2	74	3.33%	Peridinium	pyr-ug			
Chlorella	chl-u	17	626	28.33%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c				Pinnularia	bac-u			
Chroomonas	crp-ug				Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	3	110	5.00%
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u	1	37	1.67%
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug	1	37	1.67%	Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug	5			Synedra	bac-u	1	37	1.67%
Golenkinia	chl-c	1	37	1.67%	Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chi-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u				73				
Meridion	bac-u								
Merismopedia	cyn-c	32	1178	53.33%					

check	100	00%

Count (cells/mL) 2.21E+03	
---------------------------	--

AC&T Lab No.	CF-04726	Date Collected	07/06/23	
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

nap-naptopnya, py	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f	12	368	18.46%	Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	3	92	4.62%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-cg			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	2	61	3.08%	Peridinium	pyr-ug	1	31	1.54%
Chlorella	chl-u	2	61	3.08%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c	1			Pinnularia	bac-u			
Chroomonas	crp-ug	1	31	1.54%	Pithophora	chl-f			
Closterium	chi-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	6	184	9.23%
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u	1	31	1.54%
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u	1	31	1.54%
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chi-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	cyn-c	36	1104	55.38%					

______check 100.00%

Count (cells/mL)	1.99E+03
_	

AC&T Lab No.	CF-04727	Date Collected	07/06/23
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

пар-парторпута, ру	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	3	92	4.92%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Palmellococcus	chl-cg	1	31	1.64%
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	12	368	19.67%	Peridinium	pyr-ug			
Chlorella	chl-u	21	644	34.43%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c	4	123	6.56%	Pinnularia	bac-u			
Chroomonas	crp-ug	1	31	1.64%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c	8	246	13.11%	Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	3	92	4.92%
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			1
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u			
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg	-			Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chi-cg			
Lyngbya	cyn-t	-			Zygnema	chl-f			
Mastogloia	bac-u				L) giroina	O, II I			
Meridion	bac-u								
Merismopedia	cyn-c	8	246	13.11%					

_____ check 100.00%

nt (cells/mL) 1.87E+03

AC&T Lab No.	CF-04728	Date Collected	07/06/23	
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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u	1	31	2.63%	Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u			
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Pandorina	chl-c	8	245	21.05%
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	9	276	23.68%	Peridinium	pyr-ug			
Chiorella	chl-u	12	368	31.58%	Phacotus	chl-ug			
Chlorogonium	chl-ug	1	31	2.63%	Phacus	chl-ug			
Chroococcus	cyn-c	4	123	10.53%	Pinnularia	bac-u			
Chroomonas	crp-ug	3	92	7.89%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Rhizoclonium	chl-f			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chi-c			
Cymbella	bac-u				Spondylumorum	chi-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u			
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chi-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	cyn-c								

check 100.00%

t (cells/mL) 1.17E+03

CF-04730	Date Collected	07/06/23
Lake 6	Collected By	AC&T
		3, 0,1,00

Divisions: bac=Bacillariophyta; chl=Chlorophyta; cry=Chrysophyta; cyn=Cyanophyta; eug=Euglenophyta; hap=Haptophyta; pyr=Pyrrhophyta

Forms: u=unicell; c=colony; f=filament; g= flagellate

	Div	Rel.	Total			Div	Rei.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	12	1578	11.11%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Palmellococcus	chl-u	1	131	0.93%
Ceratium	pyr-ug				Pediastrum	chl-c	40	5259	37.04%
Chlamydomonas	chl-ug				Peridinium	pyr-ug			
Chlorella	chl-u	8	1052	7.41%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c				Pinnularia	bac-u			
Chroomonas	crp-ug				Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Polytoma	chl-ug			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chi-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c	4	526	3.70%
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u				Sphaerocystis	chl-c	6	789	5.56%
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f	20	2630	18.52%
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug	1	131	0.93%	Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u	15	1972	13.89%
Golenkinia	chl-c	1	131	0.93%	Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg	ĺ		
Lyngbya	cyn-f				Zygnema	chi-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	cyn-c								

check 100.00%

Count (cells/mL)	1.42E+04	

AC&T Lab No.	CF-04731	Date Collected	07/06/23
Client I.D.	Lake 7	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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u				Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u	1	460	0.61%
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f	30	13807	18.18%
Cephalomonas	chl-ug				Palmellococcus	chl-u			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug	<u> </u>			Peridinium	pyr-ug			
Chlorella	chl-u				Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c				Pinnularia	bac-u			
Chroomonas	crp-ug	1	460	0.61%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Polytoma	chl-ug			
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u	2	920	1.21%	Sphaerocystis	chl-c	6	2761	3.64%
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula	bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chl-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u	1	460	.0.61%
Golenkinia	chl-c				Synura	сгу-сд			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chi-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u								
Meridion	bac-u								
Merismopedia	cyn-c	124	57067	75.15%					

check 100.00%

Count (cells/mL)	7.59E+04

AC&T Lab No.	CF-04732	Date Collected	07/06/23	
Client I.D.	Lake 8	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

	Div	Rel.	Total			Div	Rel.	Total	
Genus	Form	Count	per mL	Comp.	Genus	Form	Count	per mL.	Comp
Achnanthes	bac-u	2	614	1.49%	Microcystis	cyn-c			
Anabaena	cyn-f				Microspora	chl-f			
Ankistrodesmus	chl-u				Nanochloris	chl-u			
Aphanothece	cyn-c				Navicula	bac-u			
Asterionella	bac-c				Nitzschia	bac-u			
Botryococcus	chl-c				Oocystis	chl-c			
Carteria	chl-ug				Oscillatoria	cyn-f			
Cephalomonas	chl-ug				Palmellococcus	chl-u			
Ceratium	pyr-ug				Pediastrum	chl-c			
Chlamydomonas	chl-ug				Peridinium	pyr-ug			
Chiorella	chl-u	19	5829	14.18%	Phacotus	chl-ug			
Chlorogonium	chl-ug				Phacus	chl-ug			
Chroococcus	cyn-c	2	614	1.49%	Pinnularia	bac-u			
Chroomonas	crp-ug	1	307	0.75%	Pithophora	chl-f			
Closterium	chl-u				Planktosphaeria	chl-c			
Cocconeis	bac-u				Pteromonas	chl-ug	5	1534	3.73%
Coelastrum	chl-c				Rhoicosphenia	bac-u			
Cosmarium	chl-u				Rhopalodia	bac-u			
Cosmocladium	chl-c				Scenedesmus	chl-c			
Crucigenia	chl-c				Schroederia	chl-u			
Cryptomonas	crp-ug				Selanastrum	chl-u			
Cyclotella	bac-u	1	307	0.75%	Sphaerocystis	chl-c			
Cymbella	bac-u				Spondylumorum	chl-c			
Denticula.	.bac-u				Spirulina	cyn-f			
Dinobryon	bac-c				Staurastrum	chl-u			
Dysmorphococcus	chi-ug				Stephanodiscus	bac-u			
Eremosphaeria	chl-u				Stigeoclonium	chl-f			
Euglena	eug-ug				Surirella	bac-u			
Fragilaria	bac-u				Synechococcus	cyn-u			
Frustulia	bac-u				Synechocystis	cyn-c			
Glenodinium	pyr-ug				Synedra	bac-u			
Golenkinia	chl-c				Synura	cry-cg			
Gomphonema	bac-u				Tetraedron	chl-u			
Gonium	chl-cg				Thoracomonas	chl-u			
Gonyaulax	pyr-ug				Trachelomonas	eug-ug			
Gymnodinium	bac-u				Vaucheria	chl-f			
Holopedium	cyn-u				Volvox	chl-cg			
Lyngbya	cyn-f				Zygnema	chl-f			
Mastogloia	bac-u				1.0				
Meridion	bac-u								
Merismopedia	cyn-c	104	31909	77.61%					

check 100.00%

Count (cells/mL) _	4.11E+04
--------------------	----------

Laboratory Sample Identification AC&T 728 29 Page1 of 1 727 730 37 W ake 1-4 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Other Sample Containers # / Preservation: Client Project Info: HSZOT (Snimic) HOS (NIDIC) Print Name: Print Name: Signature: Signature: 3 m 3 N CH 8 N None Preserved Date: pH, Temp, O2 × × × × × × × Field Measurements: × × × × × × × × Turb × × × × Golden algae × × × × 200 300 × × ¥ + di - ags A ★ × × #СИЛРЪРВО × Chain of Custody 1. RELINQUISHED BY: × × × × × E. Coli 2. RECEIVED BY: × × × × SQT × × Dumloy Alkalinity × 200 Hardness × × × × × ★ Ammonia (NH3) × Date: 7-6-23 × × × TKN-Elec × × NO3+NO5 × × Print Name: Print Name: × × × Signature: T-9|× × Signaturé Date: BLUE ON THE S. 85. 2 Matrix: SW SW SW SW SW SW SW SW A C & T Sample Receipt: WET YES 1525 W. University Drive, Suite 106 Attn: Fran Pawlak, Community Manager AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 8 120 1001 8 22 かん Total # Containers: Time: Received Intact: Samples On Ice: Sample Receipt Temperature: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** Date **Tempe, AZ 85281** 2719 South Reyes AC&T Sampler: Mesa, AZ 85202 Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract mple Location ID: Lake 2 Lake 3 Lake 5 Lake 8 Lake 4 Lake 7 Lake 1 Lake 6

Aquatic Consulting & Testing, Inc.

-015



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: 07/27/23 Date Reported: 08/09/23

Attn: Lynelle Glysson, Community Mgr

Project: Monthly Lake 1-8 Monitoring

RESULTS

Client ID: Lake 1 ACT Lab No.: CF05344			Sample Type: Surfact Sample Time: 07/27/2		
Parameter	Analys <u>Start</u>	is Date <u>End</u>	Method No.	Result	Unit
Golden Algae	07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/27/23	07/27/23	SM4500 O G	6.3	mg/L as O2
pH, Field	07/27/23	07/27/23	SM4500H+ B	8.4	SU
Temperature, Field	07/27/23	07/27/23	SM2550 B	32.0	С
Turbidity	07/27/23	07/27/23	180.1	5.6	NTU

Client ID: Lake 2 Sample Type: Surface Water ACT Lab No.: CF05345 Sample Time: 07/27/23 10:00

	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/27/23	07/27/23	SM4500 O G	6.3	mg/L as O2
pH, Field	07/27/23	07/27/23	SM4500H+ B	8.4	SU
Temperature, Field	07/27/23	07/27/23	SM2550 B	32.3	С
Turbidity	07/27/23	07/27/23	180.1	6.1	NTU

Analys	is Date			
<u>Start</u>	<u>End</u>	Method No.	Result	_Unit_
07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
07/27/23	07/27/23	SM4500 O G	6.1	mg/L as O2
07/27/23	07/27/23	SM4500H+ B	8.3	SU
07/27/23	07/27/23	SM2550 B	32.2	С
07/27/23	07/27/23	180.1	7.7	NTU
Analys	is Date			
<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
07/27/23	07/27/23	SM4500 O G	5.6	mg/L as O2
07/27/23	07/27/23	SM4500H+ B	8.3	SU
07/27/23	07/27/23	SM2550 B	32.7	С
07/27/23	07/27/23	180.1	5.5	NTU
Analys				
Start	<u>End</u>		Result	<u>Unit</u>
07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
07/27/23	07/27/23	SM4500 O G	5.5	mg/L as O2
07/27/23	07/27/23	SM4500H+ B	8.2	SU
07/27/23	07/27/23	SM2550 B	32.7	С
07/27/23	07/27/23	180.1	5.5	NTU
	Start 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 Analys Start 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23	07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 Analysis Date Start End 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23 07/27/23	Analysis Date Start End 07/27/23 07/27/23 P/C Microscopy 07/27/23 07/27/23 SM4500 O G 07/27/23 07/27/23 SM4500H+ B 07/27/23 07/27/23 SM2550 B 07/27/23 07/27/23 180.1 Sample Type: Surface Sample Time: 07/27/27 Analysis Date Start End 07/27/23 07/27/23 SM4500 O G 07/27/23 07/27/23 P/C Microscopy 07/27/23 07/27/23 SM4500 O G 07/27/23 07/27/23 SM4500 O G 07/27/23 07/27/23 SM4500H+ B 07/27/23 07/27/23 SM2550 B Sample Type: Surface Sample Time: 07/27/2 Analysis Date Start End 07/27/23 07/27/23 SM4500 O G SM4500 O G 07/27/23 07/27/23 SM4500 O G 07/27/23 07/27/23 SM4500 O G SM4500 O G	Start End Method No. Result 07/27/23 07/27/23 P/C Microscopy Absent 07/27/23 07/27/23 SM4500 O G 6.1 07/27/23 07/27/23 SM4500H+ B 8.3 07/27/23 07/27/23 SM2550 B 32.2 07/27/23 07/27/23 180.1 7.7 Sample Type: Surface Water Sample Time: 07/27/23 10:20 Analysis Date Start End Method No. Result 07/27/23 07/27/23 SM4500 O G 5.6 07/27/23 07/27/23 SM4500 H+ B 8.3 07/27/23 07/27/23 SM2550 B 32.7 07/27/23 07/27/23 180.1 5.5 Sample Type: Surface Water Sample Time: 07/27/23 10:30 Analysis Date Start End Method No. Result 07/27/23 07/27/23 P/C Microscopy Absent 07/27/23 07/27/23 SM4500 O G 5.5 07/27/23 07/27/23 SM4500 H+ B 8.2 07/27/23<

Client ID: Lake 6 ACT Lab No.: CF05349			Sample Type: Surfact Sample Time: 07/27/		
	Analys	is Date			
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/27/23	07/27/23	SM4500 O G	7.0	mg/L as O2
pH, Field	07/27/23	07/27/23	SM4500H+ B	8.4	SU
Temperature, Field	07/27/23	07/27/23	SM2550 B	33.1	С
Turbidity	07/27/23	07/27/23	180.1	9.3	NTU
Client ID: Lake 7 ACT Lab No.: CF05350			Sample Type: Surfact Sample Time: 07/27/		
	Analys	is Date			
Parameter	<u>Start</u>	_End_	Method No.	Result	<u>Unit</u>
Golden Algae	07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/27/23	07/27/23	SM4500 O G	6.8	mg/L as O2
pH, Field	07/27/23	07/27/23	SM4500H+ B	8.4	SU
Temperature, Field	07/27/23	07/27/23	SM2550 B	33.1	С
Turbidity	07/27/23	07/27/23	180.1	2.8	NTU
Client ID: Lake 8 ACT Lab No.: CF05351			Sample Type: Surfact Sample Time: 07/27/		
7,01 245 11011 01 00001	Analys	is Date	•		
Parameter	Start	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	07/27/23	07/27/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	07/27/23	07/27/23	SM4500 O G	5.3	mg/L as O2
pH, Field	07/27/23	07/27/23	SM4500H+ B	8.2	SU
Temperature, Field	07/27/23	07/27/23	SM2550 B	32.8	С
Phosphorus, Total	08/02/23	08/05/23	365.3	0.036	mg/L as P
E. coli, Colilert	07/27/23	07/28/23	SM 9223 B	99	MPN/100 mL
Turbidity	07/27/23	07/27/23	180.1	1.8	NTU

Reviewed by:_

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample Identification 249 CF 05344 250 346 250 348 547 AC&T Page1 of 1 Lake 1-8 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Other: sjoßn-Sample Containers # / Preservation: Client Project Info: HSSO4 (Salfuric) HNO3 (NIPIC) Na2S2O3 (Starile) B 3 3 Print Name: Print Name: 3 F Signature; Signature Field Measurements: pH, Temp, O2 × × × × × × × × × × × × Turb × × × Golden algae × × × × × × × × #+ CI - egs!A 1240 Chain of Custody #СИ/РЪе I. RELINQUISHED &Y: 2. RECEIVED BY: × E. Coli (EHN) sinommA 7127123 LKN-Elec Signature: NYX Print Name: | **ZON+EON** Print Name: × T.q Signature BLUE 9 (§ 1012 SW SW SW SW SW SW SW SW A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. Non: YES WET (EE) Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 030 040 8 0/0) 020) Received Intact:
Bottles Total # Containers: 02 05012 Sample Receipt Temperature: Samples On Ice: Ice Type: lab@aquaticconsulting.com Dobson Ranch Association Tempe, AZ 85281 2719 South Reyes AC&T Sampler: Mesa, AZ 85202 Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Lake 2 Lake 3 Lake 5 Lake 6 Lake 8 Lake 1 Lake 4 Lake 7

DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date: 776

By:

Uis. oxygen /√∫mg/l	ر ک <u>ا</u>	Dis. pH oxygen b.//mg/L/65/su	Clarity 75" SDz 5.0 NTU	10	Submerged weeds p Present	Fish behavior UNormal □ Distress □ Dead	Waterfowl density No. No/A 1.7	Insect agrivity t-Normal	Mechanical issues Foundain a Coperating
6.2 mg/L 8/L su	601	S SU	34" SDZ	DSuspended DSuspended DSuspended DSuspended DSuspended	a Present a Absent	p-Normal o Distress o Dead	No.	o Infestation	Fountain Seperating In No service
62mg/L 8.2su	OO.		SDZ SDZ UTU	aSuspended a Floating a Bottom a Attached	a Present	orNormal Distress	No. Z-7	o Infestation	Fourfain troperating In No service
5.8 mg/L		S, su	S. su 35" spz	DSuspended D Floating D Bottom D Attached	n Present	trivormal Distress	No. 6 No/A 2.0	Mormal Infestation	Fountain (*Operating © No service
5. (mg/L		&Csu	SDZ 722 NTU	DSuspended D Floating D Bottom D Attached	p Absen	a-Normal □ Distress □ Dead	No. No/A Zi7	e-Mormal Infestation	
80 mg/L 8.450	-	3.1/20	SDZ EXS NTU	□Suspended □ Floating □ Bottom □ Attached	a Present	□ Normal □ Distress □ Dead	No. MolA M23	□ Normal □ Infestation	
J/Bm/C		B. S. Su	SDZ	DSuspended D Floating D Bottom O Attached	o Present arAbsent	Distress	No. CH	re-vormal □ Infestation	Fountain of Operating
USOS Sou		ns QQ Sr	SDZ Z.B NTU	□Suspended □ Floating □ Bottom □ Attached	o Present g.Absent	Dead	No. No/A	□ Infestation	Aerators □ Operating △ No service

Notes and recommendations for treatment/operation:

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date: By:

□ Coperating
□ No service ♣ Operating
□ No service \d Cperating
□ No service □ No service Mechanical □ No service (Derating AND SERVICE □ Operating a-Operating senssi Aerators Fountain Fountain Fountain Fountain Fourtain D Normal o Infestation D.Mormal D Infestation □ Infestation □ Infestation □ Infestation Infestation □ Infestation □ Infestation Insect activity □ *formal □ Normal 12 Cormal the formal d. Mormal T Normal No. Naterfow 1.8 25 No/A 3.5 20 density 'n 0 No. No/A No. No/A No/A No/A No/A No. No/A ģ Š Š. Š behavior □ Dead □ Distress □ Distress □ Distress □ Distress Mormal □ Distress □ Distress □ Distress □ Distress D-Mormal Fish Dead _ D. Mormal 4-Mormal **L**Mormal □ Normal ជ Dead P-Mormal PNormal □ Dead □ Dead Dead Dead Submerged weeds □ Present □ Present □ Absent Dresent □ Present @ Absent Present □ Present □ Present □ Presen a Absent Chesent o-fosent the beent **Absent** DepuedenSon Depuedended □Suspended □Suspended □Suspended □Suspended **Depuedango** nSuspended □Suspended □ Bottom □ Attached Algae Attached □ Attached Attached □ Attached^t o Floating a Bottom □ Attached □ Floating Attached □ Floating □ Bottom □ Floating Attached □ Floating □ Floating □ Floating o Floating Bottom. □ Bottom □ Bottom □ Bottom □ Bottom SDZ GZNTU SDz 2. ØNTU SDZ F. BNTU SDZ S:/ NTU SDZ S.5 NTU SDZ SISTIN SDZ STN 3.5 Clarity Co S 8.4su 80 Si 83su 8 2 Su Su S 08.4su 핊 CB mgk. 5.2mg/L 6.2 mg/L 5.5 mg/L 7.0 mg/L 6.3 mg/L 0 · 1 mg/L 5.45 mg/L oxygen 380 Temp 373°C 37.CE 83.7c 30c 300 C Lake 9 -00 4 មា N n ~

Notes and recommendations for treatment/operation: