

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

Lic. No. AZ0003

02 April 2023

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

March 2023 Lake Report

The following abbreviated report presents the results of field inspections on the Dobson Ranch lakes for the month of March 2023. 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 and field data for Lakes 1-8 completed during the month. Field sheets for the inspections are also included. Additionally, special *E. coli* and total phosphorus data are presented for Lake 8.

March 2023 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 remained low and ranged from a high of 13.7 C to a low of 20.0 C. Water pH was 8.2-8.4 SU indicating low to moderate algae density. Dissolved oxygen (9.4-10.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Increases in dissolved oxygen concentration frequently occur during winter because of reduced respiration and decomposition rates at colder temperatures and the ability of cold water to hold more dissolved oxygen than warm water. Transparency was improved at over one meter and turbidity ranged from 4.2 to 6.1 NTU. Fountains were in service throughout the reporting period.

Waterfowl mean density was 42 per acre (42/A) which is considered poor (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 growth or submerged weeds were observed. The cryptophyte, *Chroomonas* dominated the phytoplankton. Cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected.





Lake 2

The water temperature of Lake 2 was 13.1-18.8 C. Water pH ranged from 8.1-8.3 SU indicating probable low algae density. Dissolved oxygen (9.3-9.9 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was approximately one meter and turbidity was typical at 4.2-5.3 NTU. Fountains were in operation.

About twenty-seven birds per acre (27/A) were observed and the density is considered poor 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 *Chroomonas*. Total cell density was low in the lake. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 3

Lake temperature range was 13.9 to 19.2 C. Water pH ranged from 8.1 to 8.2 SU. Dissolved oxygen concentration ranged from 10.2 to 9.3 mg/L and remained satisfactory for the fishery. Fish activity appeared normal. Transparency was stable at just under one meter. Turbidity was stable, ranging from 5.0 to 6.7 NTU. Fountains were not operating throughout the reporting period.

Waterfowl density ranged from 8 to 27 birds per acre (8-27/A); a "poor" rating. Minimal cormorants were observed. Decreased numbers of waterfowl was not expected during the migratory season. Adult midge flies did not appear to produce any nuisance issues o lakeside residents or visitors.

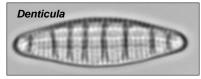
No abnormal algae growth or submerged weeds were observed. During March *Chroomonas was* the dominant alga. Very low total phytoplankton density prevented any problems. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 4

The temperature of Lake 4 was 13.6-19.0 C. Water pH was moderate at 8.2-8.4 SU and indicated a low to moderate algae density. Dissolved oxygen (9.0-9.7 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was slightly over one meter and turbidity remained low (8.4-12.0 NTU). Fountains were in operation.

Waterfowl density was 11-20 per acre (11-20/A) 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. The unicellular diatom, *Denticula*, was the dominant form. This alga is not usually known to be problematic and the overall cell count was low. Total



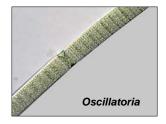
phytoplankton density also was relatively low. No golden algae (*Prymnesium parvum* or related species) were detected.

<u> Lake 5</u>

Lake temperature ranged from 13.4 to 19.3 C during the month. Water pH was 8.1 SU, indicative of a low to moderate algal density. Dissolved oxygen (7.9-10.3 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Transparency was just under one meter and turbidity ranged from 3.3 to 5.7 NTU.

Waterfowl density was 21-28 birds per acre (21-28/A); "poor" 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 algae was the blue-green filament *Oscillatoria*. The total cell density was very low. Although this alga can produce problematic floating mats no issues were observed. No golden algae (*Prymnesium parvum* or related species) were detected.



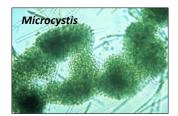
Lake 6

The temperature of Lake 6 ranged from 14.2 to 19.7 C during the reporting period. Water pH was variable and elevated, ranging from a low of 7.9 to 8.7, indicating moderate to high algae density. Dissolved oxygen (9.2-10.9 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 8.7-

10 NTU during the month and transparency was less than one meter. Data indicate increased algal growth.

Waterfowl density ranged from 39-44 per acre (39-44/A) which is considered poor. Cormorants were occasionally observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

No abnormal algae growth (other than increased density) or submerged weeds were observed. The dominant alga was the blue-green (Cyanophyta) colony, *Microcystis*. This alga can be operationally problematic but no issue occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.



Merismopedia

Lake 7

Lake temperature was 14.0-18.8 C. Water pH ranged from 8.6 to 8.8 SU, indicating moderate algae density. Dissolved oxygen ranged from 10.1 to 10.3 mg/L and was more than satisfactory for the fishery. Fish activity appeared normal, although bass spawning activity was low at the end of the month. Transparency was about one meter, with turbidity of 3.3-3.9 NTU. Fountains were in operation.

Waterfowl density was about twenty-seven to fifty-two birds per acre (27-52/A); poor 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 algae in the lake was again a problematic blue-green form; *Merismopedia*. Density of algae was elevated. The dominant algae can make the water turbid and can produce stringy mats. A few isolated cells of golden algae were identified in the lake at the end of the month.

Lake 8

Lake temperatures ranged from 13.1 to 19.1 C during the month. Water pH was 8.5-8.9 SU. Dissolved oxygen concentration was 9.3-10.9 mg/L and was satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter and turbidity correspondingly measured 7.8 NTU. Aerators were in operation.

Waterfowl density was variable; about seventeen to twenty-two (17-22/A). The rating would be 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 still dominated by bluegreen algae colonies and filaments of *Merismopedia* and *Oscillatoria* respectively. The alga can make the water appear turbid and olive green in color. Minor surface scum was observed. Cell density continued to decrease and remained in the moderate range. Golden algae was detected during the month. An algaecide application was conducted and post-treatment golden algae testing was negative.

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
03-02-23	118	0.077
03-16-23	135	0.076

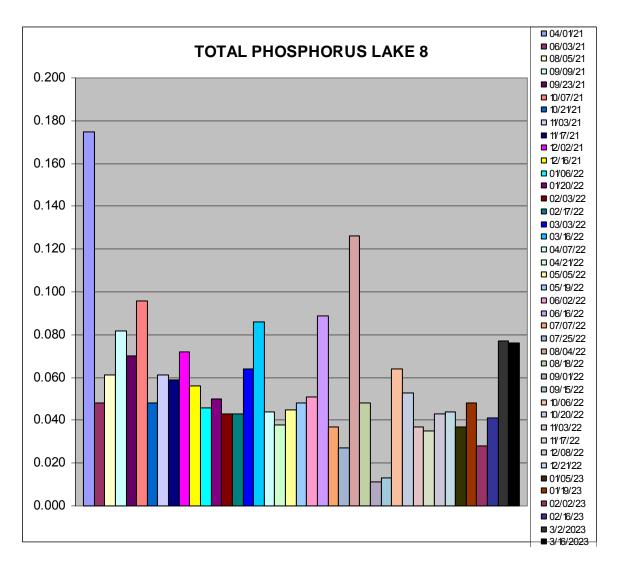
The measured bacteria concentrations are below the maximum levels established for partial and full body contact recreation by the State.

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

An application of 325 Kg of SchlixX Plus® was made in early November. The product is designed to degrade organic sludge at the lake bottom, while inactivating and preventing phosphorus recycling. The product was supplied by and application was assisted and supervised by the manufacturer (Oase, Horstel Germany) at no cost to Dobson Association. Sludge depth and phosphorus concentrations will be periodically monitored to track the success of the application.

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.



Respectfully:

Aquatic Consulting & Testing, Inc.

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



SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents



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LABORATORY REPORT

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

Date Submitted: 03/02/23 Date Reported: 03/29/23

Attn: Lynelle Glysson, Community Mgr

Project: Monthly Lake 1-4 Monitoring

RESULTS

Sample Type: Surface Water Client ID: Lake 1 Sample Time: 03/02/23 09:40 ACT Lab No.: CF01641

Analysis Date							
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>		
Algae Count	03/15/23	03/15/23	SM 10200 F	See Attached	cells/mL		
Algae Identification	03/15/23	03/15/23		See Attached			
Chl/Pheo Ratio	03/16/23	03/17/23	SM10200 H	1.75			
Chlorophyll a	03/16/23	03/17/23	SM10200 H	0.80	ug/L		
Golden Algae	03/02/23	03/02/23	P/C Microscopy	Absent	Pres/Abs		
Midge count	03/02/23	03/02/23	SM10500 C	<40	#/sq. meter		
Pheophytin a	03/16/23	03/17/23	SM10200 H	<0.10	ug/L		
Oxygen, Dissolved Field	03/02/23	03/02/23	SM4500 O G	10.2	mg/L as O2		
pH, Field	03/02/23	03/02/23	SM4500H+ B	8.2	SU		
Secchi Disk Depth	03/02/23	03/02/23	NALMS	1.04	meters		
Temperature, Field	03/02/23	03/02/23	SM2550 B	13.7	С		
Alkalinity, Total	03/17/23	03/17/23	SM 2320 B	158.	mg/L as CaCO3		
Ammonia - N	03/03/23	03/03/23	SM4500NH3 D	0.08	mg/L as N		
Nitrate + Nitrite - N	03/10/23	03/10/23	SM4500NO3 E	0.44	mg/L as N		
Phosphorus, Total	03/06/23	03/06/23	365.3	0.033	mg/L as P		
Total Hardness	03/23/23	03/23/23	SM2340C	219.	mg/L as CaCO3		
Total Kjeldahl Nitrogen	03/03/23	03/03/23	SMNorg C,NH3 C/D	1.2	mg/L as N		
E. coli, Colilert	03/02/23	03/03/23	SM 9223 B	17	MPN/100 mL		
Total Dissolved Solids	03/08/23	03/09/23	SM2540 C	528.	mg/L		
Turbidity	03/02/23	03/02/23	180.1	6.1	NTU		

Client ID: Lake 2 Sample Type: Surface Water ACT Lab No.: CF01642 Sample Time: 03/02/23 10:00

Analysis Date							
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>		
Algae Count	03/15/23	03/15/23	SM 10200 F	See Attached	cells/mL		
Algae Identification	03/15/23	03/15/23		See Attached			
Chl/Pheo Ratio	03/16/23	03/17/23	SM10200 H	1.7			
Chlorophyll a	03/16/23	03/17/23	SM10200 H	1.60	ug/L		
Golden Algae	03/02/23	03/02/23	P/C Microscopy	Absent	Pres/Abs		
Midge count	03/02/23	03/02/23	SM10500 C	<40	#/sq. meter		
Pheophytin a	03/16/23	03/17/23	SM10200 H	<0.10	ug/L		
Oxygen, Dissolved Field	03/02/23	03/02/23	SM4500 O G	9.9	mg/L as O2		
pH, Field	03/02/23	03/02/23	SM4500H+ B	8.1	SU		
Secchi Disk Depth	03/02/23	03/02/23	NALMS	1.42	meters		
Temperature, Field	03/02/23	03/02/23	SM2550 B	13.1	С		
Alkalinity, Total	03/17/23	03/17/23	SM 2320 B	135.	mg/L as CaCO3		
Ammonia - N	03/03/23	03/03/23	SM4500NH3 D	0.07	mg/L as N		
Nitrate + Nitrite - N	03/10/23	03/10/23	SM4500NO3 E	0.47	mg/L as N		
Phosphorus, Total	03/06/23	03/06/23	365.3	0.044	mg/L as P		
Total Hardness	03/23/23	03/23/23	SM2340C	200.	mg/L as CaCO3		
Total Kjeldahl Nitrogen	03/03/23	03/03/23	SMNorg C,NH3 C/D	1.1	mg/L as N		
E. coli, Colilert	03/02/23	03/03/23	SM 9223 B	19	MPN/100 mL		
Total Dissolved Solids	03/08/23	03/09/23	SM2540 C	468.	mg/L		
Turbidity	03/02/23	03/02/23	180.1	4.2	NTU		

Client ID: Lake 3	Sample Type: Surface Water
ACT Lab No.: CF01643	Sample Time: 03/02/23 10:30

Analysis Date							
Parameter	<u>Start</u>	End	Method No.	Result	<u>Unit</u>		
Algae Count Algae Identification	03/15/23 03/15/23	03/15/23 03/15/23	SM 10200 F	See Attached See Attached	cells/mL		
Chl/Pheo Ratio Chlorophyll a Golden Algae Midge count Pheophytin a	03/16/23 03/16/23 03/02/23 03/02/23 03/16/23	03/17/23 03/17/23 03/02/23 03/02/23 03/17/23	SM10200 H SM10200 H P/C Microscopy SM10500 C SM10200 H	1.7 1.60 Absent <40 <0.10	ug/L Pres/Abs #/sq. meter ug/L		
Oxygen, Dissolved Field pH, Field Secchi Disk Depth Temperature, Field	03/02/23 03/02/23 03/02/23 03/02/23	03/02/23 03/02/23 03/02/23 03/02/23	SM4500 O G SM4500H+ B NALMS SM2550 B	10.2 8.2 0.99 13.9	mg/L as O2 SU meters C		
Alkalinity, Total Ammonia - N Nitrate + Nitrite - N Phosphorus, Total Total Hardness Total Kjeldahl Nitrogen	03/17/23 03/03/23 03/10/23 03/06/23 03/23/23 03/03/23	03/17/23 03/03/23 03/10/23 03/06/23 03/23/23 03/03/23	SM 2320 B SM4500NH3 D SM4500NO3 E 365.3 SM2340C SMNorg C,NH3 C/D	144. 0.09 0.40 0.032 191. 1.3	mg/L as CaCO3 mg/L as N mg/L as N mg/L as P mg/L as CaCO3 mg/L as N		
E. coli, Colilert Total Dissolved Solids Turbidity	03/02/23 03/08/23 03/02/23	03/03/23 03/09/23 03/02/23	SM 9223 B SM2540 C 180.1	210 392. 5.0	MPN/100 mL mg/L NTU		

ample Type: Surfac ample Time: 03/02/2		
Method No.	Result	<u>Unit</u>
SM 10200 F	See Attached	cells/mL
	See Attached	
SM10200 H		
		ug/L
		Pres/Abs
		#/sq. meter
		ug/L
		mg/L as O2
		SU
		meters
SM2550 B	13.6	С
SM 2320 B	149.	mg/L as CaCO3
SM4500NH3 D	0.07	mg/L as N
SM4500NO3 E	0.42	mg/L as N
365.3		mg/L as P
		mg/L as CaCO3
MNorg C,NH3 C/D	1.2	mg/L as N
SM 9223 B	17	MPN/100 mL
SM2540 C	516.	mg/L
180.1	12.	NTU
Method No.	Result	<u>Unit</u>
P/C Microscopy	Absent	Pres/Abs
SM4500 O G	10.3	mg/L as O2
SM4500H+ B	8.1	SU
SM2550 B	13.4	С
180.1	3.3	NTU
ample Type: Surfac	e Water	
ample Time: 03/02/2	23 11:25	
Method No.	Result	<u>Unit</u>
P/C Microscopy	Absent	Pres/Abs
	9.2	mg/L as O2
SM4500 U G		
SM4500 O G SM4500H+ B	7.9	SU
		SU C
SM4500H+ B	7.9	
	Method No. SM 10200 F SM10200 H SM10200 H P/C Microscopy SM10500 C SM10200 H SM4500 O G SM4500H+ B NALMS SM2550 B SM 2320 B SM4500NH3 D SM4500NO3 E 365.3 SM2340C MNorg C,NH3 C/D SM 9223 B SM2540 C 180.1 Ample Type: Surface ample Time: 03/02/2 Method No. P/C Microscopy SM4500 O G SM4500H+ B SM2550 B 180.1 Ample Type: Surface ample Time: 03/02/2 Method No. P/C Microscopy SM4500 O G SM4500H+ B SM2550 B 180.1	SM 10200 F See Attached See Attached See Attached See Attached SM10200 H 3.20 P/C Microscopy Absent SM10500 C <40 SM10200 H <0.10 SM4500 O G 9.7 SM4500 H 8 8.4 NALMS 1.22 SM2550 B 13.6 SM 2320 B 149. SM4500NH3 D 0.07 SM4500NO3 E 0.42 365.3 0.040 SM2340C 224. MNorg C,NH3 C/D 1.2 SM 9223 B 17 SM2540 C 516. 180.1 12. ample Type: Surface Water ample Time: 03/02/23 11:15 Method No. Result P/C Microscopy Absent SM4500 O G 10.3 SM4500 H B 8.1 SM2550 B 13.4 180.1 3.3

ACT Lab No.: CF01647	Sample Time: 03/02/23 11:35						
Parameter	Analys <u>Start</u>	is Date <u>End</u>	Method No.	Result	Unit		
Golden Algae	03/02/23	03/02/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field pH, Field	03/02/23 03/02/23	03/02/23 03/02/23	SM4500 O G SM4500H+ B	10.3 8.6	mg/L as O2 SU		
Temperature, Field	03/02/23	03/02/23	SM2550 B	14.0	С		

03/02/23 03/02/23

Client ID: Lake 8
ACT Lab No.: CF01648

Turbidity

Client ID: Lake 7

Sample Type: Surface Water Sample Time: 03/02/23 11:45

180.1

NTU

lia

3.3

Sample Type: Surface Water

Analysis Date							
Parameter	<u>Start</u>	End_	Method No.	Result	<u>Unit</u>		
Golden Algae	03/02/23	03/02/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field	03/02/23	03/02/23	SM4500 O G	10.9	mg/L as O2		
pH, Field	03/02/23	03/02/23	SM4500H+ B	8.5	SU		
Temperature, Field	03/02/23	03/02/23	SM2550 B	13.1	С		
Phosphorus, Total	03/06/23	03/06/23	365.3	0.077	mg/L as P		
E. coli, Colilert	03/02/23	03/03/23	SM 9223 B	118	MPN/100 mL		
Turbidity	03/02/23	03/02/23	180.1	7.8	NTU		

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

500 Laboratory Sample 643 645 646 Identification J こり AC&T のロ D910 Page1 of 1 Lake 1-4 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: (1 4. RECEIVED BY: Cher stoon ~ Sample Containers # / Preservation: Client Project Info: HZSO4 (Suifuric) HIO2 (NIPIC) Nazszoa (Startie) Print Name: Print Name: SY N 91 94 Signature: Signature: 63 က es 67 Date: PH, Temp, O2 × × × × × × Field Measurements: × × × × × × × × druT Golden algae × × × × × × × × 1415000 # + OI - egsIA × × × × × × × × **Chain of Custody** #СИ\РРео 1. RELINQUISHED BY: × × × × 2. RECEIVED BY: E. Coli × Time: × × × × TDS × Alkalinity × × × × × × Hardness × 4 د. × × × × (EHM) sinommA × × TKN-Elec × × 03/07 Print Name: M Signature: M × × × × NO3+NO5 Print Name: Signature: × × × T.q × × Date: BLUE 2 3 SW SW SW SW SW SW SW SW A C & T Sample Receipt: 6 YES WET Non: YES 1525 W. University Drive, Suite 106 Attn: Fran Pawlak, Community Manager AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 0501 200 940 Total # Containers: Sample Receipt Temperature: Received Intact: Samples On Ice: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** 3/2/2 Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Lake 8 Lake 2 Lake 3 Lake 5 Lake 4 Lake 6 Lake 7 Lake 1 نن

Aquatic Consulting & Testing, Inc.



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LABORATORY REPORT

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

Date Submitted: 03/16/23 Date Reported: 03/31/23

Attn: Lynelle Glysson, Community Mgr

Project: Monthly Lake 1-8 Monitoring

RESULTS

Sample Type: Surface Water Client ID: Lake 1 **Sample Time:** 03/16/23 09:45 ACT Lab No.: CF02020 **Analysis Date**

Parameter	Start	End	Method No.	Result	<u>Unit</u>
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	9.4	mg/L as O2
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.4	SU
Temperature, Field	03/16/23	03/16/23	SM2550 B	20.0	С
Turbidity	03/16/23	03/16/23	180.1	4.2	NTU

Sample Type: Surface Water Client ID: Lake 2 Sample Time: 03/16/23 09:55 ACT Lab No.: CF02021

	Analys	is Date			
Parameter	Start	<u>End</u>	Method No.	Result	<u>Unit</u>
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	9.3	mg/L as O2
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.3	SU
Temperature, Field	03/16/23	03/16/23	SM2550 B	18.8	С
Turbidity	03/16/23	03/16/23	180.1	5.3	NTU

Sample Type: Surface Water Client ID: Lake 3 Sample Time: 03/16/23 10:05 ACT Lab No.: CF02022

Analysis Date							
Parameter	Start	<u>End</u>	Method No.	Result	<u>Unit</u>		
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	9.3	mg/L as O2		
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.1	SU		
Temperature, Field	03/16/23	03/16/23	SM2550 B	19.2	С		
Turbidity	03/16/23	03/16/23	180.1	6.7	NTU		

		KLOOLI	•				
Client ID: Lake 4 ACT Lab No.: CF02023	Sample Type: Surface Water Sample Time: 03/16/23 10:15						
	Analys	is Date					
Parameter	<u>Start</u>	End	Method No.	Result	<u>Unit</u>		
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	9.0	mg/L as O2		
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.2	SU		
Temperature, Field	03/16/23	03/16/23	SM2550 B	19.0	С		
Turbidity	03/16/23	03/16/23	180.1	8.4	NTU		
Client ID: Lake 5 ACT Lab No.: CF02024	Sample Type: Surface Water Sample Time: 03/16/23 10:20						
	Analys	is Date					
Parameter	Start	<u>End</u>	Method No.	Result	_Unit_		
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	7.9	mg/L as O2		
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.1	SU		
Temperature, Field	03/16/23	03/16/23	SM2550 B	19.3	С		
Turbidity	03/16/23	03/16/23	180.1	5.7	NTU		
Client ID: Lake 6 ACT Lab No.: CF02025		Sample Type: Surface Water Sample Time: 03/16/23 10:25					
ACT Lab No.: Of CLULO	Analys	is Date					
Parameter	Start	End_	Method No.	Result	Unit		
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Absent	Pres/Abs		
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	10.9	mg/L as O2		
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.7	SU		
Temperature, Field	03/16/23	03/16/23	SM2550 B	19.7	С		
Turbidity	03/16/23	03/16/23	180.1	8.7	NTU		
Client ID: Lake 7 ACT Lab No.: CF02026		Sample Type: Surface Water Sample Time: 03/16/23 10:35					
	Analys						
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>		
Golden Algae	03/16/23		P/C Microscopy	Present 1	Pres/Abs		
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	10.1	mg/L as O2		
oH, Field	03/16/23		SM4500H+ B	8.8	SU		
Temperature, Field	03/16/23		SM2550 B	18.8	C		
Turbidity	03/16/23	03/16/23	180.1	3.9	NTU		

Client ID: Lake 8	Sample Type: Surface Water
ACT Lab No.: CF02027	Sample Time: 03/16/23 10:40

Parameter	Analysi <u>Start</u>	End	Method No.	Result	<u>Unit</u>
Golden Algae	03/16/23	03/16/23	P/C Microscopy	Present 2	Pres/Abs
Oxygen, Dissolved Field	03/16/23	03/16/23	SM4500 O G	9.3	mg/L as O2
pH, Field	03/16/23	03/16/23	SM4500H+ B	8.9	SU
Temperature, Field	03/16/23	03/16/23	SM2550 B	19.1	С
Phosphorus, Total	03/27/23	03/29/23	365.3	0.076	mg/L as P
E. coli, Colilert	03/16/23	03/17/23	SM 9223 B	135	MPN/100 mL
Turbidity	03/16/23	03/16/23	180.1	7.8	NTU

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample Identification 20 とつのか AC&T Page1 of 1 Lake 1-8 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Cher sjobny Sample Containers # / Preservation: Cilent Project Info: HS2O4 (2ntinuc) HOS (MIPLE) HAZSZOS (Sterile) Print Name: Print Name: 7 Signature: Signature: Date: PH, Temp, O2 × × × × × × × Field Measurements: գոյ × × × × × × × × × × × × Golden algae × × # + Q| - ags|A фси/урео **Chain of Custody** 1. RELINQUISHED BY; × 2. RECEIVED BY: E' CO!! Print Name: 1-27 4 (EHN) sinommA TKN-Elec Signature: M NO3+NO5 Print Name: × Signature T-q BLUE Š 2 9 Ø SW SW SW NS SW NS SW SW A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. Non: YES WET YES Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 808 Total # Containers: Sample Receipt Temperature: 258 03 Samples On Ice: Received Intact: 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 Lake 8 Lake 3 Lake 5 Lake 1 Lake 2 Lake 4 Lake 6 Lake 7 ш

1211

DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date:

Deperating No service © Operating □ No service ☐ Operating □ No service Mechanical □ No service □ No service □ No service ✓ Operating g-Operating issues Foupfain Fountain Fountain Fountain Aerators Fountain UMormal □ Infestation ② Mormal □ Infestation Mormal
 Infestation □ Normal □ Infestation □ Infestation □ Infestation □ Infestation □ Infestation nsect activity Normal Normal Mormal A Mormal Waterfow density No/A No/A No/A . No No No No/A No/A No/A No/A No/A . S ģ ġ <u>0</u> <u>و</u> ġ behavior Dead ☐ Mormal □ Distress □ Distress □ Dead Fish □ Distress □ Distress □ Distress □ Distress □ Distress □ Distress Mormal Normal **E**-Normal Normal Normal Mormal **P** Normal □ Dead □ Dead □ Dead □ Dead □ Dead □ Dead Submerged weeds □ Present □ Present □ Present ⊕ Xbsent □ Present □ Present Absent Present □ Present □ Present Absent 2 Absent -Absent Absent □Suspended □Suspended Suspended Suspendec □Suspended □Suspended □Suspended □Suspended □ Floating
□ Bottom
□ Attached □ Floating
□ Bottom
□ Attached Algae □ Floating □ Bottom □ Attached ☐ Floating☐ Bottom □ Attached Attached □ Attached □ Floating □ Bottom □ Attached Floating Bottom □ Floating □ Floating Attached □ Bottom □ Bottom SDZ 75/NTU SDz 3.3 NTU 4 SDZ SDZ SDZ SMTU SA"SDZ ILANTU SDZ [C-YNTU SDZ S-3NTU Clarity UB" SDz 100 July 100 St su S. S. 7.00 60 T Su SU ns) 핆 *6*6 19 Jugh 99 mg/L 100 mg/L Oxamg/L 1/29/mg/L mg/L 10.2mg/L 10, mg/L oxygen Dis. Temp 13.7c 13.9 c 120 C 3,6c 13.4c 3 140c O N Lake 2 ന 4 S 9 ~ ∞

Notes and recommendations for treatment/operation:

Went hart Borrivolories

Bi-Monthly Lake Inspection DOBSON RANCH LAKES

Date:

□ Operating ☐ Operating □ No service ☐ Operating ☐ No service Mechanical □ No service □ No service □ No service a Operating **D** Øperating Issues Fountain Fountain Fountain Fountain Fountain Aerators △ Mormal□ Infestation □ Narmal □ Infestation □ Infestation □ Infestation □ Infestation □ Infestation Infestation □ Infestation activity Insect □ Mormal Mormal Mormal Mormal - Normal Mormal Waterfowl density No/A No/A No/A No/A No. No/A No/A No. No/A No/A ږ چ <u>.</u> ġ ė. ė Š Š bebavior □ Distress □ Mormal □ Distress ☐ Mormal ☐ Distress □ Distress □ Distress □ Distress □ Distress □ Distress Fish Mormal Prormal Mormai - Normal Mormal □ Dead _ □ Normal Dead □ Dead □ Dead □ Dead □ Dead □ Dead Submerged weeds □ Present □ Absent E Absent **⊿Absent** #Absent Absent Absent **DAbsent Absent** □Suspended □Suspended □Suspended □Suspended □Suspended □Suspended □Suspended □Suspended Algae □ Floating □ Bottom □ Attached Attached Attached □ Attached □ Attached Attached □ Floating □ Floating P-floating Attached Proating □ Floating □ Floating □ Floating □ Bottom □ Bottom □ Bottom □ Bottom □ Bottom □ Bottom SDZ STU SDZ SDZ SDZ ST NTU SDZ Br NTU SDZ UTN <u>Ç-3</u> SDZ 8.4 NTU SDZ SDZ Clarity 3,9 Rysu (%) (%) in Signal \$ \text{\$ \exitiex{\$ \text{\$ \text{\$ \text{\$ \exititt{\$ \exitit{\$ \text{\$ \tex 8.8 Su Su Su Su S H OÓ 193 mg/L 46_mg/L , Smg/L 7,9mg/L (0,9mg/L _mg/L _mg/L oxygen Dis. Temp *88* 19.7c 10 C M2 800 192c Lake 2 က 4 5 9 ∞

Notes and recommendations for treatment/operation:

Attached

□ Bottom



1525 West University Drive, Suite 106

Tempe, Arizona 85281

Phone: 480-921-8044 Fax 480-921-0049

PESTICIDE TREATMENT NOTICE & RECORD									
Client	Client: Dobson Association								
	2719 S	Reyes							
	Mesa, A	Z 85202							
Phone	e/fax: 480)-831-8314	Lynelle (Glysson					
Loca	tion: Loca	ation: Lak	e 8						
Da	ate:	Time:	Start Condit				Finish Conditions: clear pt cloudy overcast cold mild cool		
3-2	22-23	0900		st cold cool Direction & speed: s	slight breeze	overcast cold mild cool Wind Direction & speed: breezy			
			Other	er:			Other:		
			=						
			Reg. No.	(*restricted)	•		Acres/Volume:		
	Cutrine pl	ius		8959-10 12 gal		2.5A			
Pretreatment Surveillance									
Target organism: Golden algae/ planktonic blue-green algae									
Application method/calculations: lake 8: 2.5 sa x 8' x 0.6 gal/aft= 12 gallons									
Dosage/rate: 0.18 ppm Cu Percent active ingr				Percent active ingr	edient: coppe	r=27.99	%		
Applicator: J. Cook Cert. No. 18000									
Visual monitoring: Note effects on target and any non-target species. During application: No unusual circumstances or effects									

Post application: Date:

□ change in water quality ■ target species impact □ non-target species impact Explain: No dead fish or other adverse effect observed; GA negative tests.

Precautionary Statement:

Warning-Pesticides can be harmful. Keep children and pets away from pesticide applications until dry, dissipated, or aerated. For more information contact Aquatic Consulting & Testing, Inc. at 480-921-8044 and ask for Dr. Rick Amalfi. AC&T License No. 4418 F. A. Amalfi QP#1360 Cert. No. 900496