

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

Lic. No. AZ0003

04 March 2024

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

February 2024 Lake Report

The following abbreviated report presents the results of field inspections on the Dobson Ranch lakes for the month of February 2024. 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.

February 2024 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

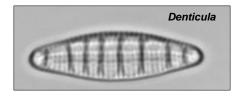
The Lake 1 temperature remained low and ranged from a high of 16.9 C to a low of 14.1 C. Water pH was 8.2-8.3 SU indicating low to moderate algae density. Dissolved oxygen (9.3-11.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Increases in dissolved oxygen concentration frequently 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 2.9-3.4 NTU. Fountains were in service throughout the reporting period.

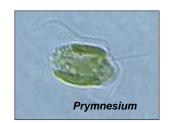
Waterfowl mean density was less than two birds per acre (<2/A) which is considered excellent (Arizona Game & Fish Department rating system shown below). No cormorants were noted. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors.

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 diatom, *Denticula*, dominated the phytoplankton. Cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected.





Oscillatoria

Lake 2

The water temperature of Lake 2 was 14.0-16.9 C. Water pH ranged from 8.0 to 8.2 SU indicating probable low algae density. Dissolved oxygen (9.9-10.2 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was approximately one meter and turbidity was typical at 3.7-4.7NTU. Fountains were in operation.

About two to five waterfowl per acre (2-5/A) were observed and the density is considered excellent to fair 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 *Oscillatoria*. Total cell density was low in the lake. No golden algae (*Prymnesium parvum* or related species) were detected.

Lake 3

Lake temperature range was 14.1-16.5 C. Water pH ranged from 8.1 to 8.3 SU. Dissolved oxygen concentration ranged from 9.7-10.5 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 4.2 to 4.9 NTU. Fountains were operating throughout the reporting period.

Waterfowl density ranged from eight to nine birds per acre (8-9/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. *Navicula* 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 14.0-16.3 C. Water pH was moderate at 8.2-8.3 SU and indicated a low to moderate algae density. Dissolved oxygen (10.1 mg/L) was satisfactory for the fishery and fish activity appeared normal. Transparency was slightly over one meter and turbidity remained low (4.2-5.5 NTU). Fountains were in operation.

Waterfowl density was three per acre (3/A) which is considered good. 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 diatom *Navicula*, was the dominant form. This alga is unlikely to cause any issues. 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 13.8-16.4 C during the month. Water pH was 8.2 SU, indicative of a low to moderate algal density. Dissolved oxygen (9.4-10.1 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Transparency was just under one meter and turbidity ranged from 3.9-4.2 NTU.

Waterfowl density was about four to nine birds per acre (4-9/A); good to 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, *Cyclotella*. The total cell density was very low. No golden algae (*Prymnesium parvum* or related species) were detected.



Lake 6

The temperature of Lake 6 ranged from 13.9-16.8 C during the reporting period. Water pH was variable and elevated, ranging from a low of 8.3 to a high of 8.4 SU, indicating moderate algae density. Dissolved oxygen (9.3-11.4 mg/L) was more than satisfactory for the fishery and fish activity appeared normal. Turbidity ranged from 5.6-11.5 NTU during the month and transparency was less than one meter. Data indicate increased algal growth.

Waterfowl density was approximately six (6/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 diatom (Bacillariophyta) unicell, *Cyclotella*. The alga is not typically operationally problematic and no issue occurred. Golden algae (*Prymnesium parvum* or related species) were not detected.

Lake 7

Lake temperature ranged from 14.1 to 16.8 C. Water pH was 8.2 SU during the reporting period SU. Dissolved oxygen ranged from 9.3 to 10.0 mg/L and was more than satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter, with turbidity of 2.8-3.4 NTU. Fountains were in operation.

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

The dominant suspended algae in the lake were again a variety of unicellular green flagellates. Golden algae was not detected in the lake during the reporting period.

Lake 8

Lake temperatures ranged from 14.1 to 16.9 C during the month. Water pH was 8.2-8.3 SU. Dissolved oxygen concentrations were 10.0-10.1 mg/L and were satisfactory for the fishery. Fish activity appeared normal. Transparency was about one meter and turbidity correspondingly measured 4.2 to 5.6 NTU. Aerators were not in operation.

Waterfowl density was variable; about seven birds per acre (7/A). The rating would be considered poor based on the Arizona Game & Fish Department rating system. Cormorants were not observed. Adult midge flies did not appear to produce any nuisance issues to lakeside residents or visitors. The aeration system was not operational during the reporting period.

No submerged weeds were observed. The phytoplankton was dominated by diatoms (*Synedra* and *Navicula*). Golden algae was not identified during the reporting period.

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
02-07-24	10	0.043
02-22-24	11	0.070

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 1-4 are scheduled for comprehensive monitoring starting in March. All lakes will be visually inspected and field data collected two times during the month and checked for golden algae weekly during the peak season. Additional monitoring of Lake 8 phosphorus and *E. coli* will continue.

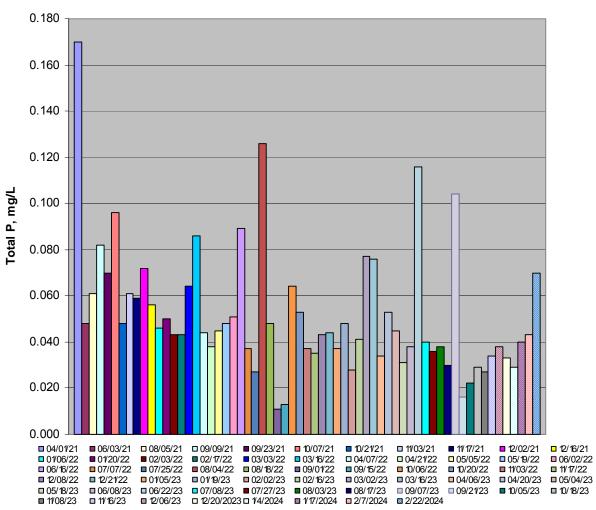
Frederick Amalfi #91-01M

Respectfully:

Aquatic Consulting & Testing, Inc.

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

TOTAL PHOSPHORUS LAKE 8



SUPPORTING DOCUMENTATION

- Laboratory reports
- Field Inspection Sheets
- Pesticide application documents



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Lic. No. AZ0003

GOLDEN ALGAE REPORT

Client: Dobson Ranch Association 2719 South Reyes Road Mesa, AZ 85202 Date Submitted: 02/07/24 Date Reported: 03/01/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

7		R	ESULTS					
Client ID: Lake 1 ACT Lab No.: CG00893		Sample Type: Surface Water Sample Time: 02/07/24 06:50						
	Analysi	s Date						
<u>Parameter</u>	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Turbidity	02/07/24	02/07/24	180.1	0.1	2.9	NTU	MJ	
Client ID: Lake 2 ACT Lab No.: CG00894					e: Surface Water e: 02/07/24 07:00			
	Analysi	s Date						
Parameter	Start	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Turbidity	02/07/24	02/07/24	180.1	0.1	4.7	NTU	MJ	
Client ID: Lake 3 ACT Lab No.: CG00895					e: Surface Water e: 02/07/24 07:05			
ACT Lab No.: 0000000	Analysi	s Date	ou	.p.o	0.02/01/2			
Parameter	Start	End	Method No.	MRL	_Result_	<u>Unit</u>	Analyst	
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Turbidity	02/07/24	02/07/24	180.1	0.1	4.9	NTU	MJ	
Client ID: Lake 4					e: Surface Water e: 02/07/24 07:15			
ACT Lab No.: CG00896	Amalus:	o Doto	Sair	ihie iim	e. 02/01/24 01:15			
Parameter	Analysi <u>Start</u>	End	_Method No	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA	
Turbidity	02/07/24	02/07/24	180.1	0.1	5.5	NTU	MJ	

		13	LOULIO				
Client ID: Lake 5 ACT Lab No.: CG00897	Sample Type: Surface Water Sample Time: 02/07/24 07:20						
	Analysi	s Date					
<u>Parameter</u>	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Turbidity	02/07/24	02/07/24	180.1	0.1	3.9	NTU	MJ
Client ID: Lake 6 ACT Lab No.: CG00898					e: Surface Water e: 02/07/24 07:30		
	Analysi	s Date					
Parameter_	Start	End	Method No.	MRL_	Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Turbidity	02/07/24	02/07/24	180.1	0.1	12.	NTU	MJ
Client ID: Lake 7 ACT Lab No.: CG00899					e: Surface Water e: 02/07/24 07:40		
	Analysi	s Date					
Parameter	Start	End	Method No.	<u>MRL</u>	Result	<u>Unit</u>	Analyst
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Turbidity	02/07/24	02/07/24	180.1	0.1	3.4	NTU	MJ
Client ID: Lake 8 ACT Lab No.: CG00900	Sample Type: Surface Water Sample Time: 02/07/24 07:50						
	Analysi						
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	_Result_	<u>Unit</u>	Analyst
Golden Algae	02/07/24	02/07/24	P/C Microscopy	1	Absent	Pres/Abs	FAA
Phosphorus, Total	02/23/24	02/26/24	365.3	0.010	0.043	mg/L as P	DW
E. coli, Colilert	02/07/24	02/08/24	SM 9223 B	1	10	MPN/100 mL	MEW

Explanation of Terms:

<u>Absent</u> = No golden algae* were detected in the submitted sample.

<u>Present 1</u> = Golden algae* were detected, but rarely observed in the submitted sample.

<u>Present 2</u> = Golden algae* were detected and commonly observed in the submitted sample.

<u>Present 3</u> = Golden algae* were detected and were the dominant algae in the submitted sample.

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Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

^{*}Prymnesium parvum or toxin producing related species.

Laboratory Sample Identification 4900 AC&T 899 Page 1 of 1 896 898 20 (6000393 Lake 1-8 Monthly Monitoring 899 Dobson Ranch Association 3 3. RELINQUISHED BY: 4. RECEIVED BY: Other: sjobny Semple Containers Client Project Info: HSSO4 (Sulfuric) HMO3 (NIPIC) Na2S203 (Startle) Print Name: Print Name: Signature: Signature: ~ -SO, qmaT, Hq Field Measurements: Turb × × × × × × × × × × Golden algae × × × × × × #+ GI - agsIA 1310 **Chain of Custody** #СИЛРЬео 1. RELINQUISHED BY × 2. RECEIVED BY: E. Coll 421 F0150 Ammonia (NH3) TKN-Elec Print Name: (M) Signature: NY NO3+NOS Print Name: Ţ.q × Signature BLUE 2 9 つか Matrix: SW SW MS MS SW SW 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 6 50 750 300 200 718 220 120 046 Total # Containers: Sample Receipt Temperature: Samples On Ice: Received intact: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** Sh # Bottles Preserved: Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract imple Location ID: Lake 3 Lake 6 Lake 8 Lake 2 Lake 5 Lake 4 Lake 7 Lake 1 نن



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GOLDEN ALGAE REPORT

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

Date Submitted: 02/13/24 Date Reported: 02/15/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

		17	LOOLIO						
Client ID: Lake 1 ACT Lab No.: CG01017		Sample Type: Surface Water Sample Time: 02/13/24 08:00							
	Analysi	s Date							
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst		
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA		
Client ID: Lake 2 ACT Lab No.: CG01018	Sample Type: Surface Water Sample Time: 02/13/24 08:10								
	Analysi	s Date							
<u>Parameter</u>	Start	End	Method No.	MRL	Result	Unit	Analyst		
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA		
Client ID: Lake 3 ACT Lab No.: CG01019					e: Surface Water e: 02/13/24 08:15	-			
	Analysi	s Date							
<u>Parameter</u>	Start	End	Method No.	MRL	_Result_	<u>Unit</u>	Analyst		
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA		
Client ID: Lake 4 ACT Lab No.: CG01020					e: Surface Water e: 02/13/24 08:20				
ACT Lab No.: 0001020	Analysi	e Data	5 4		9. 02 / 10/2 1 0 0 1 m 0				
Parameter_	Start_	End_	_Method No	MRL	_Result_	<u>Unit</u>	Analyst		
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1	Absent	Pres/Abs	FAA		

Client ID: Lake 5 ACT Lab No.: CG01021	Sample Type: Surface Water Sample Time: 02/13/24 08:30					
	Analysi	s Date				
Parameter_	Start	End	Method No.	MRL Result	<u>Unit</u>	Analyst
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 6 ACT Lab No.: CG01022				nple Type: Surface Water nple Time: 02/13/24 08:45		
	Analysi	s Date				
<u>Parameter</u>	Start	End	Method No.	MRL Result	<u>Unit</u>	Analyst
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 7 ACT Lab No.: CG01023				nple Type: Surface Water nple Time: 02/13/24 08:55		
	Analysi	s Date				
Parameter_	Start	End	Method No.	MRL Result	Unit	Analyst
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Client ID: Lake 8 ACT Lab No.: CG01024				nple Type: Surface Water nple Time: 02/13/24 09:05		
	Analysi	s Date				
Parameter	Start	End	Method No.	MRL Result	<u>Unit</u>	<u>Analyst</u>
Golden Algae	02/13/24	02/13/24	P/C Microscopy	1 Absent	Pres/Abs	FAA
Explanation of Terms: Absent = No golden algae* Present 1 = Golden algae* Present 2 = Golden algae* Present 3 = Golden algae*	were detected were detected	l, but rarely I and comn	observed in the s nonly observed in	submitted sample. the submitted sample.		
*Prymnesium parvum or toxin	producing rela	ated specie	S.			On

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample Identification 1022 1024 1023 1020 1021 AC&T Page 1 of 1 610 1018 Lake 1-8 Monthly Monitoring 10105 Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Офес sjoßny Sample Containers # / Preservation: Client Project Info: HSSO4 (Sulfuric) HOO3 (NIPJC) Na2S2O3 (Sterile) Print Name: Print Name: Signature: Signature: bevieser's enoli - ~ + 4-~ Date: PH, Temp, O2 Field Measurements: × × × × × × × × Golden algae # + CI - agsIA Time: 1945 #СИ\Рhео **Chain of Custody** 1. RELINGUISHED BY: 2. RECEIVED BY: E. Coli Print Name: 4540 42-61-20 0213124 (EHN) sinommA **TKM-Elec** Print Name: M) Signature: M NO3+NO2 Signature: T.q Date: BLUE õ 9 SW 450 SW SW SW SW SW NS SW A C & T Sample Receipt: Ø Aquatic Consulting & Testing, Inc. YES Non: YES WET Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 0530 6815 6855 0830 0189 5480 080D Time: Total # Containers: Sample Receipt Temperature: Received Intact: Samples On Ice: lab@aquaticconsulting.com ice Type: **Dobson Ranch Association** M2-61720 # Bottles Preserved: Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract mple Location ID: Lake 6 Lake 2 Lake 4 Lake 5 Lake 7 Lake 8 Lake 1 Lake 3 Notes: ш 8



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Lic. No. AZ0003

LABORATORY REPORT

Client: Dobson Ranch Association 2719 South Reyes Road

Date Submitted: 02/22/24 Date Reported: 03/07/24

Mesa, AZ 85202

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitoring

DECLII TO

		RESULT	S							
Client ID: Lake 1 ACT Lab No.: CG01249		Sample Type: Surface Water Sample Time: 02/22/24 07:00								
	Analys									
Parameter	<u>Start</u>	_End_	Method No.	Result	<u>Unit</u>					
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs					
Turbidity	02/22/24	02/22/24	180.1	3.4	NTU					
Client ID: Lake 2 ACT Lab No.: CG01250			Sample Type: Surfaction Sample Time: 02/22/2							
	Analys		** (1 1 1 1 1	Deleville	11!4					
Parameter	Start	<u>End</u>	Method No.	Result	<u>Unit</u>					
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs					
Turbidity	02/22/24	02/22/24	180.1	3.7	NTU					
Client ID: Lake 3 ACT Lab No.: CG01251			Sample Type: Surfaction Sample Time: 02/22/2							
	Analys	is Date								
Parameter	Start	_End_	Method No.	Result	Unit					
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs					
Turbidity	02/22/24	02/22/24	180.1	4.2	NTU					
Client ID: Lake 4 ACT Lab No.: CG01252			Sample Type: Surfac Sample Time: 02/22/3							
	Analys			_						
Parameter	Start	_End_	Method No.	Result	<u>Unit</u>					
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs					
Turbidity	02/22/24	00/00/04	180.1	5.9	NTU					

		KLOOLI						
Client ID: Lake 5 ACT Lab No.: CG01253	Sample Type: Surface Water Sample Time: 02/22/24 07:25							
	Analys	is Date						
Parameter	<u>Start</u>	_End_	Method No.	Result	<u>Unit</u>			
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs			
Turbidity	02/22/24	02/22/24	180.1	4.3	NTU			
Client ID: Lake 6 ACT Lab No.: CG01254			Sample Type: Surfact Sample Time: 02/22/					
	Analys							
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>			
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs			
Turbidity	02/22/24	02/22/24	180.1	5.6	NTU			
Client ID: Lake 7 ACT Lab No.: CG01255			Sample Type: Surfact Sample Time: 02/22/					
	Analys	is Date						
Parameter	Start	<u>End</u>	Method No.	Result	Unit			
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs			
Turbidity	02/22/24	02/22/24	180.1	2.8	NTU			
Client ID: Lake 8 ACT Lab No.: CG01256			Sample Type: Surfact Sample Time: 02/22/					
	Analys	is Date						
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	<u>Unit</u>			
Golden Algae	02/22/24	02/22/24	P/C Microscopy	Absent	Pres/Abs			
Phosphorus, Total	03/06/24	03/06/24	365.3	0.070	mg/L as P			
E. coli, Colilert	02/22/24	02/23/24	SM 9223 B	11	MPN/100 mL			
Turbidity	02/22/24	02/22/24	180.1	4.2	NTU			

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample 121 H Identification 1254 1255 1253 AC&T 1150 Page 1 of 1 CG 01249 Lake 1-8 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Cther stogu Sample Containers # / Preservation: Client Project Info: HSSO4 (Sulfuric) HIO3 (NIPIC) Nazszos (Startie) 7 7 Print Name: Print Name: Signature: Signature: PH, Temp, O2 Field Measurements: Turb × × × × × × Golden algae × × #+ GI - agsIA いない #СИ\Рьео Chain of Custody 1; RELINQUISMED BY: E, Coli 2. RECEIVED BY: Sol סדונהונה (SHV) sinommA TKN-Elec Print Name: M Signature: No NO3+NOS Print Name: Signature: T-q Date: BLUE 3 3 9 8 SW SW SW MS SW SW SW SW A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. <u>a</u> Non: (ES) YES WET Attn: Fran Paqwlak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 18 9 Total # Containers: 8 220 730 Sample Receipt Temperature: Time: 745 210 Samples On Ice: Received Intact: lab@aquaticconsulting.com Ice Type: **Dobson Ranch Association** 2-22.24 # Bottles Preserved: Date: Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract ample Location ID. Lake 2 Lake 3 Lake 4 Lake 5 Lake 6 Lake 7 Lake 8 Lake 1 Notes: PO#



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Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

GOLDEN ALGAE REPORT

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

Date Submitted: 02/28/24 Date Reported: 03/05/24

Attn: Fran Pawlak, Executive Director

Project: Monthly Lake 1-8 Monitorin

RESULTS

		K	ESULIS					
Client ID: Lake 1 ACT Lab No.: CG01365					e: Surface Water e: 02/28/24 06:30			
	Analysi	s Date						
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	_Result_	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 2 ACT Lab No.: CG01366	Sample Type: Surface Water Sample Time: 02/28/24 06:40							
	Analysi	s Date						
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 3 ACT Lab No.: CG01367					ne: Surface Water ne: 02/28/24 06:45			
	Analysi	s Date						
Parameter_	Start	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 4					e: Surface Water			
ACT Lab No.: CG01368			San	iple Tim	ne: 02/28/24 06:50			
	Analysi		Made al Ma	MDI	Daguilé	l lmi4	Analyst	
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	

		- 11	LOGEIG					
Client ID: Lake 5 ACT Lab No.: CG01369		Sample Type: Surface Water Sample Time: 02/28/24 06:55						
	Analysi	is Date						
Parameter	Start	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 6 ACT Lab No.: CG01370					e: Surface Water e: 02/28/24 07:00			
	Analysi							
<u>Parameter</u>	<u>Start</u>	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 7 ACT Lab No.: CG01371					e: Surface Water e: 02/28/24 07:10			
Adi Lab Holl Godio.	Analysi	is Nate						
Parameter	Start_	<u>End</u>	Method No.	MRL	Result	<u>Unit</u>	Analyst	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Client ID: Lake 8 ACT Lab No.: CG01372					e: Surface Water e: 02/28/24 07:15			
	Analysi	is Date						
Parameter_	Start	End	Method No.	MRL	Result	<u>Unit</u>	<u>Analyst</u>	
Golden Algae	03/04/24	03/04/24	P/C Microscopy	1	Absent	Pres/Abs	ZH	
Explanation of Terms:								
Absent = No golden alg	ae* were detec	cted in the s	submitted sample.					
Present 1 = Golden algae*	were detected	d, but rarely	observed in the s	submitted	sample.			
Present 2 = Golden algae*	were detected	d and comn	nonly observed in	the subm	nitted sample.			
Present 3 = Golden algae*								

Reviewed by:

*Prymnesium parvum or toxin producing related species.

Frederick A. Amalfi, Ph.D. Laboratory Director

Laboratory Sample Identification 368 369 201365 36 AC&T in Page1 of 1 Lake 1-8 Monthly Monitoring Dobson Ranch Association 3. RELINQUISHED BY: 4. RECEIVED BY: Other: Sample Containers # / Preservation: Client Project Info: HISON (Sulfuric) HMO2 (MIPIC) Na2S203 (Startle) Print Name: Print Name: Signature: Signature: _ beviesen's anoli PH, Temp, O2 Field Measurements: qını Golden algae × × × × × × × × # + OI - ags!A 1250 #СИЛРЬео **Chain of Custody** 1, RELINQUISHED BY: 2. RECEIVED BY: E. Coli 02/28/24 (EHN) sinommA TKN-Elec Print Name: M Signature: M NO3+NO2 Print Name: T-q Signature Date: (2) BLUE 2 いな 00 NS NS SW SW SW SW SW A C & T Sample Receipt: Aquatic Consulting & Testing, Inc. WET Non: 3 YES Attn: Fran Paqwiak, Community Manager 1525 W. University Drive, Suite 106 AC&T Client Reporting Information: 480-921-8044 fax: 480-921-0049 Total # Containers: 2000 20 210 Sample Receipt Temperature: Samples On Ice: 049 Received Intact: lab@aquaticconsulting.com ice Type: **Dobson Ranch Association** Tempe, AZ 85281 2719 South Reyes Mesa, AZ 85202 AC&T Sampler: Project Location: **Dobson Ranch** P: 4/80-831-8314 Lakes Contract Lake 3 Lake 5 Lake 8 Lake 2 Lake 4 Lake 6 Lake 7 Lake 1

DOBSON RANCH LAKES
Bi-Monthly Lake Inspection

Date:

By:

Notes and recommendations for treatment/operation:

DOBSON RANCH LAKES Bi-Monthly Lake Inspection

Date:

Øperating□ No service Aerators

Operating A No service □ No service □ No service Mechanical □ No service □ Operating **E**Operating p-Operating issues Fountain Fountain Fountain Fountain Fountain □ Normal□ Infestation □ Normal □ Infestation activity Insect the Mormal Mormal 2-Kormal - Normal Normal Normal 300 Waterfowl 33 No. No/A density a No/A No. No. No/A No/A No/A No/A No. No/A Š. . گ <u>ڊ</u> ġ behavior □ Normal □ Distress □ Dead Mormal Distress □ Distress □ Distress □ Distress □ Distress Distress □ Dead _ Distress Fish □ Dead _ **DAformal** Mormal P Yormal Mormal Normal Mormal □ Dead _ □ Dead _ □ Dead □ Dead Dead Submerged weeds □ Present

☑ Absent □ Present □ Present □ Present □ Present □ Present □ Present □ Absent □ Present PAbsent DAbsent Absent PAbsent **E-Absent** Absent Company □Suspended □Suspended □Suspended □Suspended -Suspended □Suspended Suspended □Suspended □ Bottom □ Attached - Floating □ Attached □ Attached Attached Algae □ Floating □ Bottom □ Attached □ Attached □ Attached Attached □ Floating □ Floating □ Floating □ Floating □ Floating □ Floating □ Bottom □ Bottom □ Bottom □ Bottom □ Bottom □ Bottom SDZ SDZ SZ NTU SDZ 42-NTU SDZ 3.4NTU SDZ S.9 NTU SDZ 4.3-NTU SDz 5.6NTU SDZ 2.8 NTU Clarity 02 02 su 8.7sn 62 8,3su 82 su 8.3 su 8.3su 833u 동 g, ymg/L 1/5mg/L 10.5 mg/L (0. mg/L (6.1 mg/L 9.3 mg/L 9.9 mg/L (O.C.mg/L oxygen Dis. Temp 16.9c 16:8°C 16.8c 16.9c 16.3c 16.3c 16.4° ပ 169 Lake 00 10 9 **~** ↽ 2 3 4

Notes and recommendations for treatment/operation:

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