

There has been discussion recently and in the past about how to handle our relationship with the GLCC. I had a long discussion with Kathy on how to best handle payments to them or the vendors they use on our behalf. Here is what she would propose to allow for transparency and everyone has the same expectation.

Attached is a copy of the GLCC agreement that was drawn up by our attorneys when Colleen was still the Director. We would use this agreement each year, with an amount of "up to" \$10,000. We have owed them approximately \$9300 the last two years, so this amount should be adequate. We would make a motion at the April Meeting to approve this agreement, which the Board President and the President of the GLCC will sign. This will be added to the Master Calendar and will be done every April.

The GLCC determines how much they will spray at their May meeting after Clarke is able to do the bio-mapping. Per the agreement, we will pay for any acreage that is in front of our property or taxpayer property. Therefore the GLCC knows exactly how much they can expect from the Park District when they determine how much more of the lake to spray.

Then the GLCC will contract out the spraying of Gages Lake and provide us with a copy of the invoice showing how much they sprayed and a final amount. The GLCC will pay the vendor directly since they are the ones contracting them out. Kathy can then reimburse the GLCC based on our portion of the invoice. We will have already approved it as a Board via the agreement at the April meeting and she can make the payment to the GLCC accordingly.

This provides complete transparency and helps the GLCC to know how much the Park District will pay each year.

**SERVICES AGREEMENT  
BETWEEN THE WILDWOOD PARK DISTRICT AND  
THE GAGES LAKE CONSERVATION COMMITTEE**

This agreement is made and entered into as of this day, May 1, 2021 by and between the WILDWOOD PARK DISTRICT, Lake County, Illinois, a municipal corporation, (hereinafter referred to as "Park District"), and GAGES LAKE CONSERVATION COMMITTEE, a not-for-profit corporation, Lake County, Illinois (hereinafter referred to as "GLCC") (collectively "Parties") for GLCC to provide landscaping care and maintenance of the Park District's property at Gages Lake.

NOW, THEREFORE, IN CONSIDERATION OF the mutual covenants and promises contained herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

Section 1. Description of Services.

1. GLCC is responsible for to chemically treating the weeds in the water and on the bottom of the lake on the Park District's property located at Gages Lake as needed.
2. GLCC may not plant anything in the water and on the bottom of the lake on the Park District's property without the prior approval of the Park District's Board of Park Commissioners. GLCC will work with the Park District to maintain plantings as needed.

Section 2. Location of Services.

The Park District owns real property on Gages Lake in Wildwood, Illinois. GLCC will be responsible for services at the sections of Gages Lake owned by the Park District, as well as any Park District taxpayer.

Section 3. Term of Agreement.

This Agreement shall be in effect May 1, 2021 through April 30, 2022. This Agreement may be renewed for the following year upon the written agreement of both Parties. Notwithstanding anything in this Agreement to the contrary, either party may terminate this Agreement without cause upon ten (10) days written notice to the other party.

Section 4. Payment.

In exchange for the GLCC's services described in Section 1, the Park District agrees to reimburse the GLCC in the amount up to \$10,000. Payment for services to Gages Lake Conservation Committee shall comply with the Local Government Prompt Payment Act.

## Section 5. Insurance.

GLCC will require a certificate of insurance from any company/vendor that is used adding the Wildwood Park District as additional insured and will provide a copy of all of the certificates of insurance to the Park District. The certificate of insurance should reflect the following amounts: Commercial General Liability insurance with coverage for Bodily Injury: \$1,000,000.00 Per Person, \$1,000,000.00 Per Accident and for Property Damage: \$1,000,000.00 Per Occurrence, as well as, Umbrella Excess Liability in the amount of \$2,000,000.00 over Primary Insurance.

Nothing herein shall be construed to consider the insurance described herein as a limit of GLCC's liability to the Park District under this Agreement.

## Section 6. Indemnification.

GLCC, its employees and contractors, shall indemnify and hold harmless the Park District and any of its officers, officials and employee or agents from any and all claim, demands, liability, loss, damages, fines, penalties, attorney's fees and litigations expenses (collectively "Loss") arising out of injury to, including the death of, persons and/or damage to property, to the extent caused by the acts of omissions of the GLCC or any of its officers, officials, employees, contractor, volunteers, or agents related to the services performed under this Agreement. The provisions of this Section shall survive the termination or expiration of this Agreement.

## Section 7. Miscellaneous.

- A. **No Third Party Beneficiary.** This Agreement is entered into solely for the benefit of the contracting parties, and nothing in this Agreement is intended, either expressly or impliedly, to provide any right or benefit of any kind whatsoever to any person or entity who is not a party to this Agreement, or to acknowledge, establish or impose any legal duty to any third party.
- B. **Relationship of the Parties.** This Agreement does not represent either Party as the agent, employee, or representative of the other for any purpose whatsoever. Nothing herein contained shall be construed to imply a joint venture, partnership or principal-agent relationship between GLCC and the Park District. Neither Party is granted any express or implied right or authority by the other Party to assume or create any obligation or responsibility on behalf of or in the name of the other Party, or to bind the other Party in any manner whatsoever.
- C. **Assignment.** GLCC may not assign the Agreement or transfer any rights or obligations under the Agreement without the Park District's prior written consent under an assignment addendum, such consent granted in the Park District sole discretion. Any assignment or transfer in violation of this Section 7.C is void.
- D. **Severability.** In case any one or more of the provisions contained herein shall, for any reason, be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement, and this Agreement shall be construed as if such provision(s) had never been contained herein, provided that such provision(s) shall be curtailed, limited or eliminated only to the extent necessary to remove the invalidity, illegality or unenforceability.

E. Waiver. No waiver by a Party of any breach by the other Party of any of the provisions of this Agreement shall be deemed a waiver of any preceding or succeeding breach of the same or any other provisions hereof. No such waiver shall be effective unless in writing and then only to the extent expressly set forth in writing.

F. Excusable Delay. Neither Party will be in default of its obligations under the Agreement or liable to the other for any noncompliance arising from causes beyond the reasonable control of the Party, including, without limitation, fires, floods, natural disasters, communication failures and other equipment or telecommunication problems. Each Party will use reasonable efforts to resolve promptly any type of excusable delay. Neither party may rely on an excusable delay without first promptly giving notice thereof to the other party.

G. Notices. All notices between the Parties shall be in writing and shall be sent by a method providing for proof of delivery to the addresses described in this Section 7.G, until such time as a Party provides written notice of a change in contact or address. E-mail may not be used as a means of providing official notice under this Agreement.

To the Park District: Wildwood Park District  
33325 N. Sears Boulevard  
Wildwood, IL 60030

To the GLCC:

H. This Agreement contains the entire agreement between the parties and supersedes all prior or contemporaneous agreements, discussions or representations, oral or written with respect to the subject matter hereof.

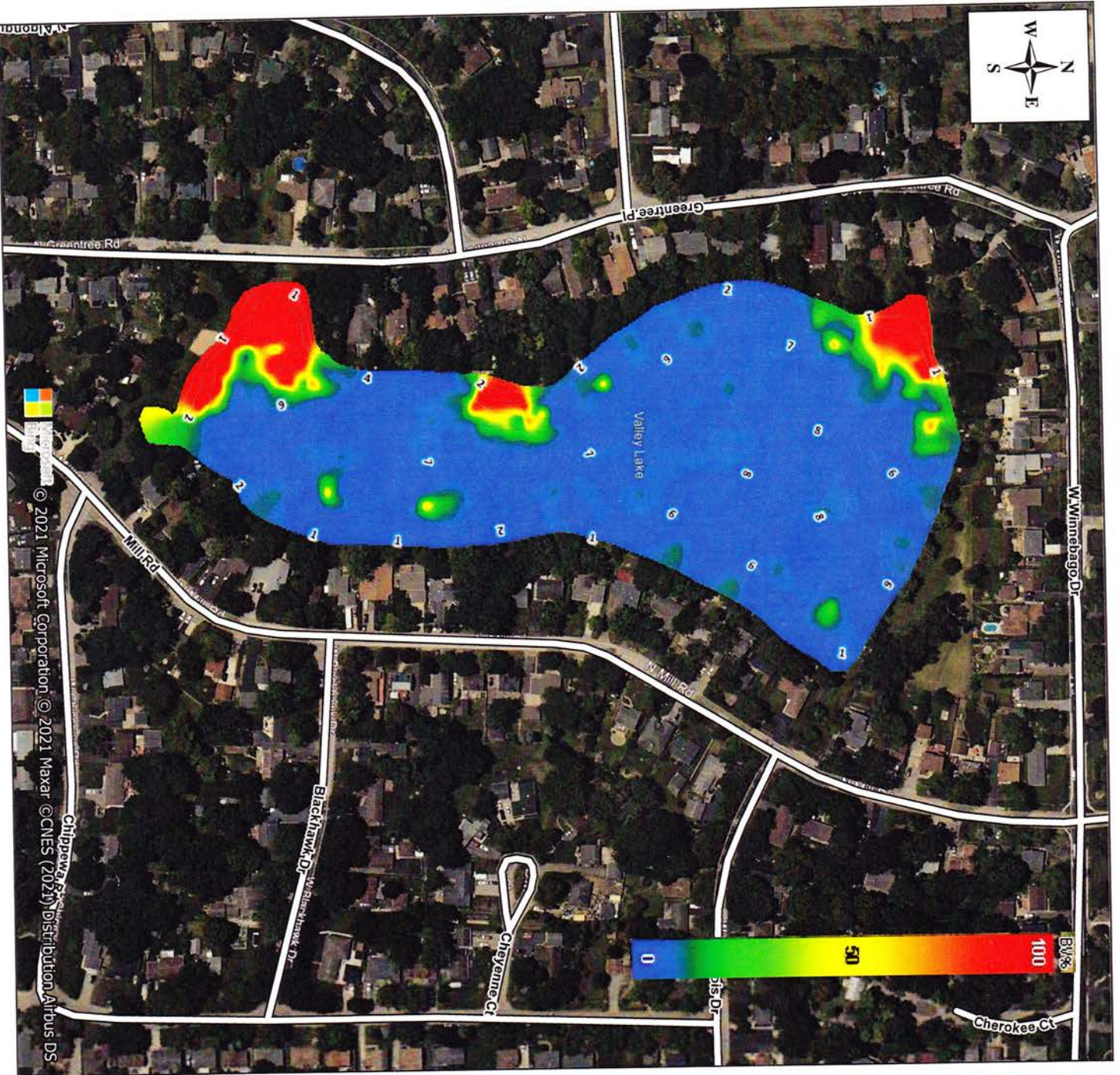
IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first above written.

**WILDWOOD PARK DISTRICT**

**GAGES LAKE CONSERVATION COMMITTEE**

\_\_\_\_\_  
President, Board of Park Commissioners

\_\_\_\_\_  
President, Gages Lake Conservation Committee



# VALLEY LAKE

## SURVEY

*Aquatic Mapping  
Survey*

**SURVEY DATE: April 27, 2021**

**WARNING:** This document is the property of Clarke Environmental Mosquito Mgmt., Inc. Any unauthorized use of this property will be prosecuted as a theft of labor, services, or property. (Chapter 38, §16-1 and §16-3 of the IL. REV. STATUTES)



Customer: 088927 - Valley Lake

Service Order No: 0000124595

Treatment Date: 4/27/2021

Start Time: 4/27/2021 12:40 PM

End Time: 4/27/2021 1:30 PM

Duration: 50

Technician: Garrett Schwarz

Permit No:

Primary Licensee Name: Garrett Schwarz

Primary License No: CA103042

Primary License Name:

Your Site Reference: CAS  
 Our Site Reference: 000-0001

Water Temp: 58  
 Dissolved Oxygen: 10.00

PH: 7.50  
 Alkalinity: 120

Temperature: 80

Wind Direction: North

Wind Velocity: 1-10 MPH

Precipitation: Clear

Precipitation %: 0%

Control Consultant: Jennifer Biancalana

Tel:

Email: jbiancalana@clarke.com

Weed Algae	Percentage	Location	Treated
Filamentous Algae	5	Whole pond	***No***
Curlyleaf Pondweed	1	Whole pond	***No***

Total Products Used - All Sites



Run By: jbiancalana

# Aquatic Customer Report With Chemicals

Page 1 of 1  
Wednesday, May 26, 2021  
2:06:59 PM

Date between : 01/01/2021 and 12/31/2021

## Service Report

Customer	Treatment Date	Start Time	End Time	Temp	Water Temp	Water PH	Dissolved Oxygen	Pond No	Customer Site	Zone ID	Zone Name
088827 - Valley Lake	04/27/2021	4/27/2021 12:40:00 PM	4/27/2021 1:30:00 PM	80	58	7.5	10	000-0001	CAS		

05/11/2021	5/11/2021 9:35:00 AM	5/11/2021 11:05:00 AM	50	62	7.5	12.2	000-0001	CAS		
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Weed/Algae	Percentage	Location
Filamentous Algae	5	Whole pond
Curlyleaf Pondweed	1	Whole pond

Service Type	Used Quantity	Unit of
COPPER SULFATE LARGE GRAN	4.500	lbs
CUTRINE PLUS	7.500	gal
CYGNET PLUS ADJUVANT	0.250	gal
2.5 GAL		

Weed/Algae	Percentage	Location
Thinleaf Pond Weed	3	Submerged
Curlyleaf Pondweed	1	Submerged
Filamentous Algae	3	Shoreline

Site ID Customer  
000-0001 CAS

Comments: copper sulfate for the plunge pool and shallow areas along south shoreline

Customer: 088827 - Valley Lake

Service Order No: 0000122303

Temperature: 50

Treatment Date: 5/11/2021

Wind Direction: NorthEast

Start Time: 5/11/2021 9:35 AM

Wind Velocity: 1-10 MPH

End Time: 5/11/2021 11:05 AM

Precipitation: Clear

Duration: 90

Precipitation %: 80%

Technician: Tommy Purdom

Control Consultant: Jennifer Biancalana

Permit No: na

Tel:

Primary Licensee Name: Tommy Purdom

Email: jbiancalana@clarke.com

Primary License No: CA89414

Primary License Name: ILG87

Your Site Reference: CAS

Our Site Reference: 000-0001

Water Temp: 62

Dissolved Oxygen: 12.20

PH: 7.50

Alkalinity: 120

Weed	Algae	Percentage	Location	Treated
Thinleaf Pond	Weed	3	Submerged	***No***
Curlyleaf	Pondweed	1	Submerged	***No***
Filamentous Algae		3	Shoreline	Yes







# Aquatics Report

Products Used	Used Quantity	Unit Of Measure	Restrictions	Restriction Expires On
Cygnat Plus Adjuvant	0.25	gal		
<b>EPA Number</b> NO NUMBER			<b>Restrictions</b>	<b>Restriction Expires On</b>
			Swimming	0 days n/a
			Irrigation	0 days n/a
			Fishing	0 days n/a
COPPER SULFATE LARGE GRAN	4.5	lbs		
<b>EPA Number</b> 829-210			<b>Restrictions</b>	<b>Restriction Expires On</b>
			Swimming	days n/a
			Irrigation	days n/a
			Fishing	days n/a
Cutrine Plus	7.5	gal		
<b>EPA Number</b> 8959-10			<b>Restrictions</b>	<b>Restriction Expires On</b>
			Swimming	days n/a
			Irrigation	days n/a
			Fishing	days n/a

### Total Products Used - All Sites

COPPER SULFATE LARGE GRAN	4.5 lbs
Cutrine Plus	7.5 gal
Cygnat Plus Adjuvant	0.25 gal

Customer: 098827 - Valley Lake

Service Order No: 0000122302

Temperature: 83

Treatment Date: 5/25/2021

Wind Direction: South

Start Time: 5/25/2021 11:36 AM

Wind Velocity: 16+ MPH

End Time: 5/25/2021 2:25 PM

Precipitation: Clear

Duration: 169

Precipitation %: 80%

Technician: Eric Goebel

Control Consultant: Jennifer Biancalana

Permit No: na

Tel:

Primary Licensee Name: Eric Goebel

Email: jbiancalana@clarke.com

Primary License No: CA100523

Primary License Name: ILG87

Your Site Reference: CAS

Our Site Reference: 000-0001  
 Water Temp: 79

Dissolved Oxygen: 9.50  
 PH: 8.00  
 Alkalinity: 180

Weed Algae	Percentage	Location	Treated
Filamentous Algae	20	Whole pond	Yes
Curlyleaf Pondweed	3	Submerged	***No***







Products Used	Used Quantity	Unit Of Measure	Restrictions	Restriction Expires On
Cygnat Plus Adjuvant	0.25	gal	Swimming Irrigation Fishing	n/a n/a n/a
<b>EPA Number NO NUMBER</b>				



# Aquatics Report

K-TEA 18 gal

EPA Number  
67690-24

Restrictions	Restriction Expires On
Swimming	days n/a
Irrigation	days n/a
Fishing	days n/a

## Total Products Used - All Sites

Cygnel Plus Adjuvant	0.25 gal
K-TEA	18 gal

Customer: 098827 - Valley Lake

Service Order No: 0000122296

Treatment Date: 6/15/2021

Start Time: 6/15/2021 8:21 AM

End Time: 6/15/2021 10:05 AM

Duration: 104

Technician: Tommy Purdom

Permit No: na

Primary Licensee Name: Tommy Purdom

Primary License No: CA89414

Primary License Name: LG87

Your Site Reference: CAS

Our Site Reference: 000-0001

Water Temp: 79

Dissolved Oxygen: 8.50

PH: 8.00

Alkalinity: 180

Temperature: 73

Wind Direction: NorthEast

Wind Velocity: 1-10 MPH

Precipitation: Clear

Precipitation %: 80%

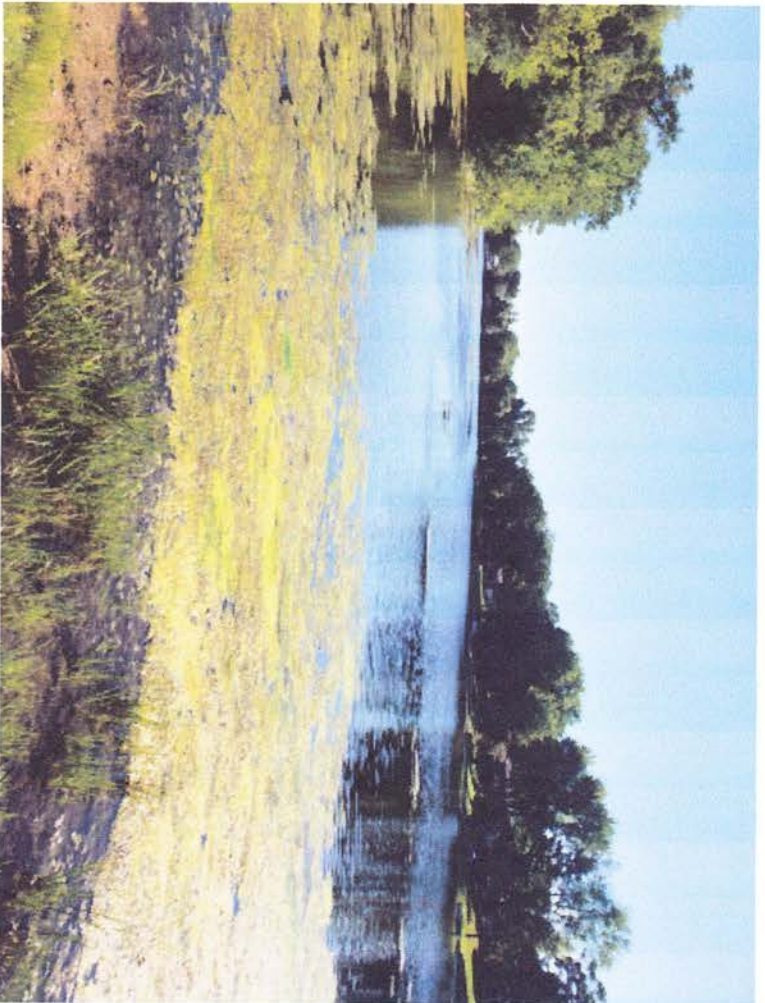
Control Consultant: Jennifer Biancalana

Tel:

Email: jbiancalana@clarke.com

Weed Algae	Percentage	Location	Treated
Filamentous Algae	15	Shoreline	Yes
Sago Pondweed	3	Submerge	***No***





Products Used	Used Quantity	Unit Of Measure	Restrictions	Restriction Expires On
K-TEA	24	gal		
<b>EPA Number</b> 67690-24				
			<b>Restrictions</b>	<b>Restriction Expires On</b>
			Swimming	days n/a
			Irrigation	days n/a
			Fishing	days n/a
Cygnat Plus Adjuvant	0.5	gal		
<b>EPA Number</b> NO NUMBER				
			<b>Restrictions</b>	<b>Restriction Expires On</b>
			Swimming	0 days n/a
			Irrigation	0 days n/a
			Fishing	0 days n/a
<b>Total Products Used - All Sites</b>				
K-TEA		24 gal		
Cygnat Plus Adjuvant		0.5 gal		

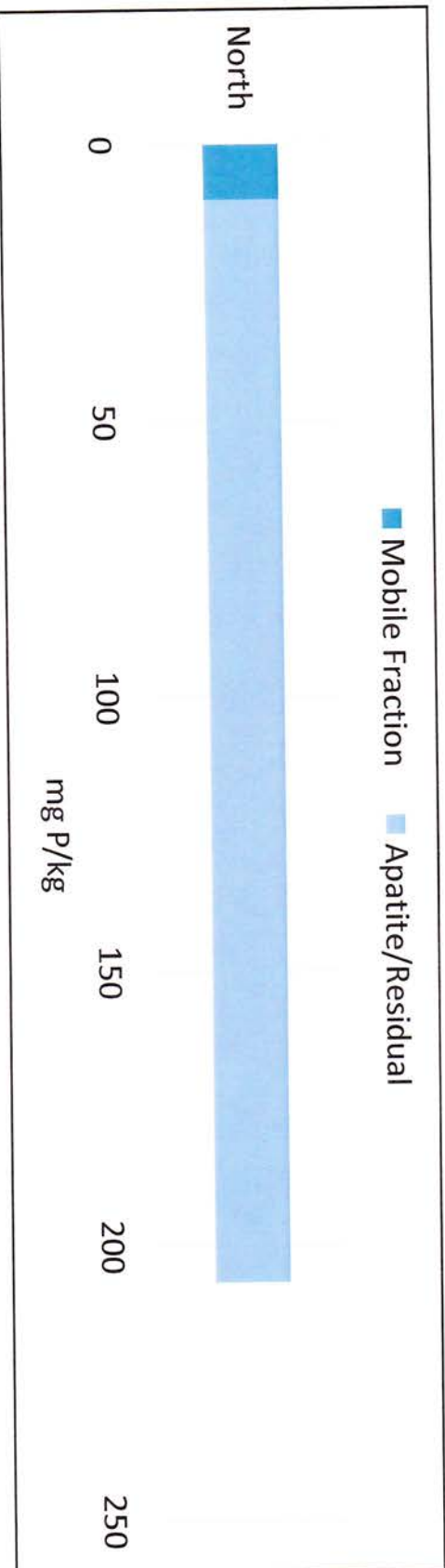


### Laboratory Report: Level 1 Sediment Phosphorus Fractioning Analysis

Company Name: Clarke Aquatic Services  
 Billing Address: 159 N. Garden Ave  
 City, State, Zip: Roselle, IL 60172  
 Contact Person: Tommy Purdom  
 Email Address: tpurdom@clarke.com  
 Telephone: 630-461-5358

Project Name: Valley Lake  
 Water Body: Valley Lake  
 Size (ac.): 12  
 Average Depth (ft): 6  
 Collection Date: 04/01/2021  
 Chain of Custody: COC9248 Reported: 04/14/2021

Sample ID	Sample Name	Apatite and Residual (mg P/kg)	Mobile Phosphorus Fraction (mg P/kg)	Sum of Phosphorus Fractions (mg P/kg)	% Solids (% Dry Wt.)
CTM26319-1	North	197	10	207	83



<sup>1</sup> Mobile phosphorus represents fractions of sediment phosphorus that are potentially bio-available in typical aquatic environments. All concentrations are reported based on dry weight

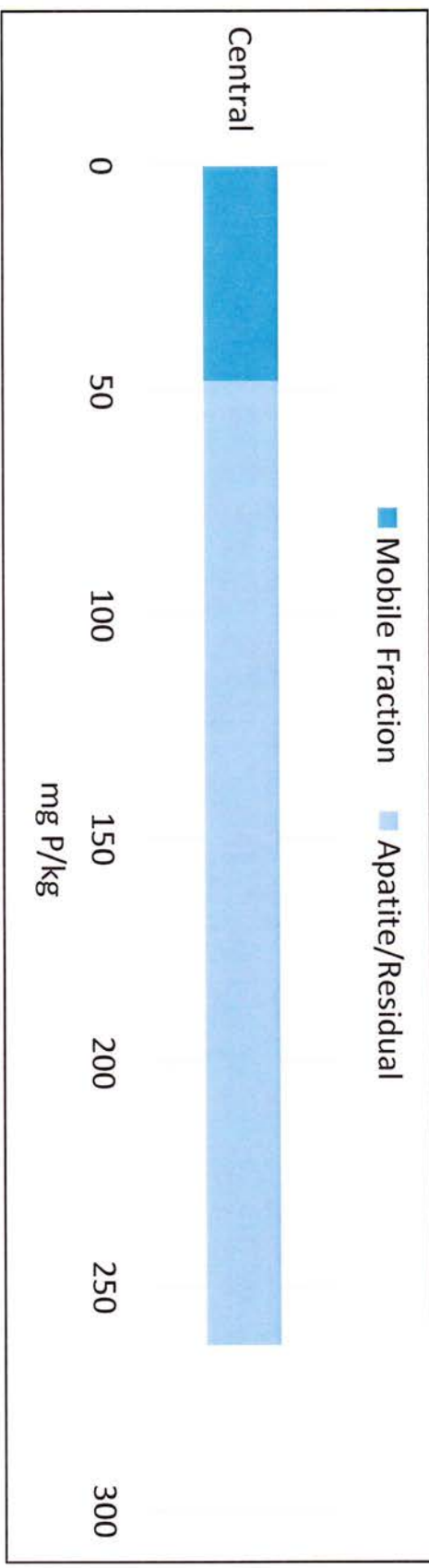


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 Billing Address: 159 N. Garden Ave  
 City, State, Zip: Roselle, IL 60172  
 Contact Person: Tommy Purdom  
 Email Address: [tpurdom@clarke.com](mailto:tpurdom@clarke.com)  
 Telephone: 630-461-5358

Project Name: Valley Lake  
 Water Body: Valley Lake  
 Size (ac.): 12  
 Average Depth (ft): 6  
 Collection Date: 04/01/2021  
 Chain of Custody: COC9248 Reported: 04/14/2021

Sample ID	Sample Name	Apatite and Residual (mg P/kg)	Mobile Phosphorus Fraction (mg P/kg)	Sum of Phosphorus Fractions (mg P/kg)	% Solids (% Dry Wt.)
CTM26320-1	Central	215	48	263	81



<sup>1</sup> Mobile phosphorus represents fractions of sediment phosphorus that are potentially bio-available in typical aquatic environments. All concentrations are reported based on dry weight

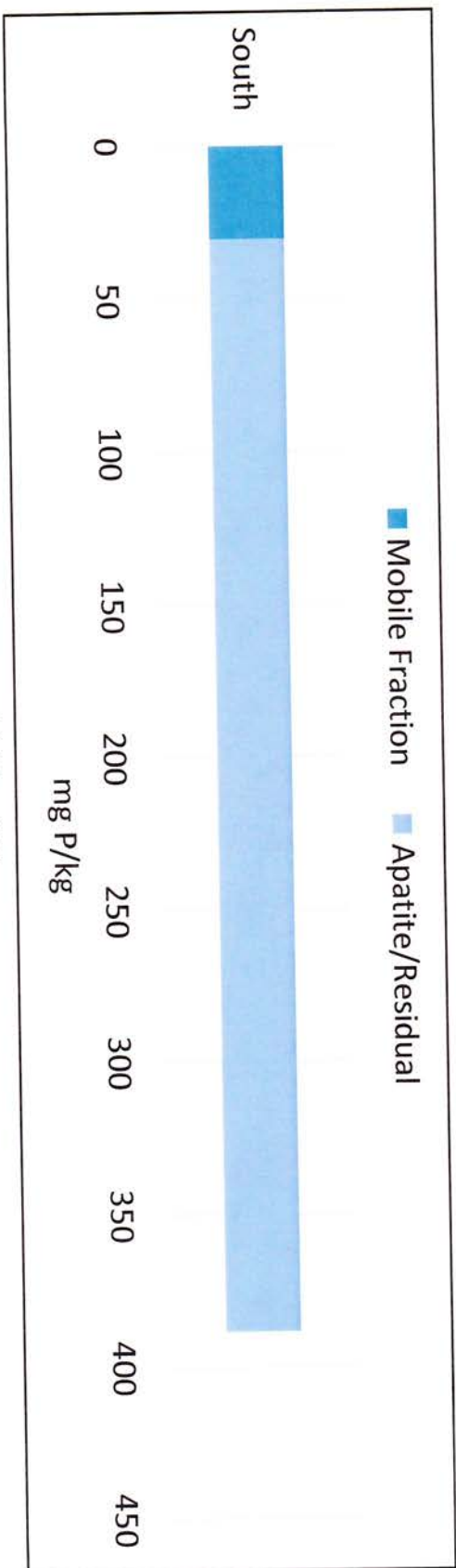


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**Contact Person:** Tommy Purdom  
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**Telephone:** 630-461-5358

**Project Name:** Valley Lake  
**Water Body:** Valley Lake  
**Size (ac.):** 12  
**Average Depth (ft):** 6  
**Collection Date:** 04/01/2021  
**Chain of Custody:** COC9248 **Reported:** 04/14/2021

Sample ID	Sample Name	Apatite and Residual (mg P/kg)	Mobile Phosphorus Fraction (mg P/kg)	Sum of Phosphorus Fractions (mg P/kg)	% Solids (% Dry Wt.)
CTM26321-1	South	358	30	389	74



<sup>†</sup> Mobile phosphorus represents fractions of sediment phosphorus that are potentially bio-available in typical aquatic environments. All concentrations are reported based on dry weight



16013 Watson Seed Farm Road, Whitakers, NC 27891

Chain of Custody: COC9248 **LABORATORY REPORT**

**Customer Company Customer Contact**

Company Name: Clarke Aquatic Services	Contact Person: Tommy Purdom
Address: 16906 136th Ave, Nunica, MI 49448	E-mail Address: tpurdom@clarke.com
	Phone:

**Waterbody Information**

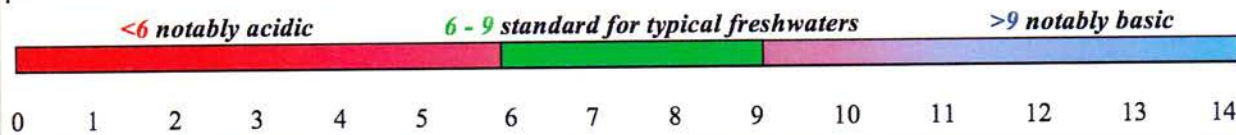
Waterbody:	Valley Lake - IL
Waterbody size:	12
Depth Average:	6

Sample ID	Sample Location	Test	Method	Results	Sampling Date / Time
CTM26315-1	North	Turbidity (NTU)	EPA 180.1	2.5	04/01/2021
		Conductivity (uS/cm)	EPA 120.1	1251.0	
		Free Reactive Phosphorus (ug/L)	EPA 365.3	5	
		Dissolved Oxygen (mg/L)	EPA 360.1	8.7	
		Total Phosphorus (ug/L)	EPA 365.3	16.2	
		Alkalinity (mg/L as CaCO3)	EPA 310.2	187.8	
		Total Hardness (mg/L as CaCO3)	EPA 130.2	227.1	
		pH	EPA 150.1	8.2	
CTM26316-1	Central	Turbidity (NTU)	EPA 180.1	2.7	04/01/2021
		Conductivity (uS/cm)	EPA 120.1	1260.0	
		Free Reactive Phosphorus (ug/L)	EPA 365.3	5	
		Dissolved Oxygen (mg/L)	EPA 360.1	8.2	
		Total Phosphorus (ug/L)	EPA 365.3	15.1	
		Alkalinity (mg/L as CaCO3)	EPA 310.2	188.6	
		Total Hardness (mg/L as CaCO3)	EPA 130.2	224.0	
		pH	EPA 150.1	8.2	
CTM26317-1	South	Turbidity (NTU)	EPA 180.1	6.1	04/01/2021
		Conductivity (uS/cm)	EPA 120.1	2020.0	
		Free Reactive Phosphorus (ug/L)	EPA 365.3	5	
		Dissolved Oxygen (mg/L)	EPA 360.1	8.4	
		Total Phosphorus (ug/L)	EPA 365.3	31.8	
		Alkalinity (mg/L as CaCO3)	EPA 310.2	270.9	
		Total Hardness (mg/L as CaCO3)	EPA 130.2	345.7	
		pH	EPA 150.1	8.1	
CTM26318-1	Plunge Pool	Turbidity (NTU)	EPA 180.1	2.5	04/01/2021

## Water Quality Analysis Explanation

These water quality parameters are essential to document the condition of a water body and design custom treatment prescriptions to achieve desired management objective

**pH:** Measure of how acidic or basic the water is ( pH 7 is considered neutral).



**Hardness:** Measure of the concentration of divalent cations, primarily consisting of calcium and magnesium in typical freshwaters. *0-60 mg/L as CaCO<sub>3</sub> soft; 61-120 moderately hard; 121-180 hard; > 181 very hard*

**Alkalinity-** Measure of the buffering capacity of water, primarily consisting of carbonate, bicarbonate and hydroxide in typical freshwaters. Waters with lower levels are more susceptible to pH shifts.  
*<= 50 mg/L as CaCO<sub>3</sub> low buffered; 51-100 moderately buffered; 101-200 buffered; > 200 high buffered*

**Conductivity-** Measure of the waters ability to transfer an electrical current, increases with more dissolved ions.  
*< 50 uS/cm relatively low concentration may not provide sufficient dissolved ions for ecosystem health; 50-1500 typical freshwaters; > 1500 may be stressful to some freshwater organisms, though not uncommon in many areas*

**Dissolved Oxygen-** amount of diatomic oxygen dissolved in the water.  
*< 2 mg/L likely toxicity with sufficient exposure duration; < 5 stressful to many aquatic organisms; >= 5 able to support most fish and invertebrates*

**Phosphorus:** Essential nutrient often correlating to growth of algae in freshwaters.

**Total Phosphorus (TP)** is the measure of all phosphorus in a sample as measured by persulfate strong digestion and includes: inorganic, oxidizable organic and polyphosphates. This includes what is readily available, potential to become available and stable forms. *<12 µg/L oligotrophic; 12-24 µg/L mesotrophic; 25-96 µg/L eutrophic; > 96 µg/L hypereutrophic*

**Free Reactive Phosphorus (FRP)** is the measure of inorganic dissolved reactive phosphorus (PO<sub>4</sub>-3, HPO<sub>4</sub>-2, etc). This form is readily available in the water column for algae growth.

**Nitrogen:** Essential nutrient that can enhance growth of algae.

**Total N** is all nitrogen in the sample (organic N+ and Ammonia) determined by the sum of the measurements for Total Kjeldahl Nitrogen (TKN) and ionic forms.

**Nitrites and Nitrates** are the sum of total oxidized nitrogen, often readily free for algae uptake.  
*< 1 mg/L typical freshwater; 1-10 potentially harmful; >10 possible toxicity, above many regulated guidelines*

**Chlorophyll a:** primary light-harvesting pigment found in algae and a measure of the algal productivity and water quality in a system.

*0-2.6µg/L oligotrophic; 2.7-20 µg/L mesotrophic; 21-56 µg/L eutrophic; > 56 µg/L hypereutrophic*

**Turbidity-** Measurement of water clarity. Suspended particulates (algae, clay, silt, dead organic matter) are the common constituents impacting turbidity.

*< 10 NTU drinking water standards and typical trout waters; 10-50 NTU moderate; > 50 NTU potential impact to aquatic life.*



# Inspection of waterbody and/or algae or aquatic vegetation application

Customer No 088827 Name Valley Lake Service Type Boat Inspection Address Mill Road and Greentree Road City Wildwood Treatment Qty 10 Scheduling Notes

Report For 2021

Treatment Date	Completed	Treatment Qty
05/11/2021	<input checked="" type="checkbox"/>	
05/25/2021	<input checked="" type="checkbox"/>	
06/08/2021	<input type="checkbox"/>	
06/15/2021	<input checked="" type="checkbox"/>	
07/06/2021	<input type="checkbox"/>	
07/20/2021	<input type="checkbox"/>	
08/03/2021	<input type="checkbox"/>	
08/17/2021	<input type="checkbox"/>	
08/31/2021	<input type="checkbox"/>	
09/14/2021	<input type="checkbox"/>	
Conserve Survey Inspection		
Mill Road and Greentree Road	Wildwood	1
Treatment Date Completed		
04/27/2021	<input checked="" type="checkbox"/>	



## VOLUNTEER LAKE MONITORING PROGRAM-SECCHI MONITORING

DIRECTIONS: Anchor boat at each monitoring site. Fill out form as completely and neatly as possible.

Lake Name: Valley Lake Date (mm/dd/yy): 05/14/21  
 County: Lake Lake Code: RG24 Telephone: 224-321-6159

Please list First and Last names of ALL individuals that assisted with this monitoring trip.

Volunteer Name(s): Marian Kowalski

Site	Time 24 hr. (hh:mm)	Secchi Depth (nearest inch)	Secchi Visible		Secchi Hidden by Plants?	Aquatic Plants at Site (circle one)				Color	Total Depth (nearest 1/2 ft.)	DO/Temp taken?			
			on Bottom?			1	2	3	4			Y	N		
1	10:44	86	Y	(N)	Y	(N)	(0)	1	2	3	4	8	9.0	(Y)	N
2	10:57	84	(Y)	N	Y	(N)	(0)	1	2	3	4	3	7.0	(Y)	N
3	11:07	76	(Y)	N	Y	(N)	(0)	1	2	3	4	3	6.0	(Y)	N
	:		Y	N	Y	N	0	1	2	3	4		.	Y	N
	:		Y	N	Y	N	0	1	2	3	4		.	Y	N
	:		Y	N	Y	N	0	1	2	3	4		.	Y	N
	:		Y	N	Y	N	0	1	2	3	4		.	Y	N

<b>General Weather Conditions</b>		<b>Cloud Cover</b> (check one)		<b>Waves</b> (check one)	
Wind Direction (out of): <u>S</u>		<input checked="" type="checkbox"/> Sunny	Overcast <input type="checkbox"/>	<input checked="" type="checkbox"/> Calm/Ripple	Small <input type="checkbox"/>
Amount of Rain (last 48 hrs.): <u>.0</u> inches		<input type="checkbox"/> Partly Cloudy/Partly Sunny	Hazy <input type="checkbox"/>	<input type="checkbox"/> Moderate	White Caps <input type="checkbox"/>

<b>Lake Level is:</b>		<b>Volunteer Hours</b> (to nearest 1/2 hour)		<b>Aquatic Plant Coverage</b> (check only one)	
<input type="checkbox"/> "Normal" or Full Pool		(include preparation, monitoring & paperwork time) Number of Volunteers: <u>1</u> Number of Hours per Volunteer: <u>1.5</u> Total Volunteer Hours = <u>1.5</u>		Percentage of the entire lake area containing surface and submerged aquatic plants.	<input checked="" type="checkbox"/> Less than 5%
<input type="checkbox"/> Above normal by _____ inches				<input type="checkbox"/> 5 to 25%	
<input checked="" type="checkbox"/> Below normal by _____ inches		<input type="checkbox"/> 26 to 50%			
Gage Reading: _____ (if applicable) (gage units)		<input type="checkbox"/> 51 to 70%			
		<input type="checkbox"/> Greater than 70%			

<b>Additional Observations</b> (including recent weather conditions, noticeable lake changes, aquatic plants present, recreational usage, etc.)	<b>Lake/Watershed Management</b> (list techniques ongoing or applied since last monitoring; include dates & details when possible)

<b>Harmful Algal Bloom Watch</b>		<b>Aquatic Exotics:</b> (check all suspected exotics)	
Is a cyanobacteria (blue-green algae) bloom present?	Y <u>(N)</u>	<input type="checkbox"/> Eurasian Watermilfoil	Zebra Mussel <input type="checkbox"/>
If Yes: a) have a Bloom Report form & photos been submitted to IEPA?	Y N	<input type="checkbox"/> Curlyleaf Pondweed	Quagga Mussel <input type="checkbox"/>
OR b) has the bloom been reported using the bloomWatch app?	Y N	<input type="checkbox"/> Hydrilla	Common Carp <input type="checkbox"/>
<b>Water Quality and Chlorophyll Sampling</b> (s = surface, b = bottom)		<input type="checkbox"/> Brazilian Elodea	Grass Carp <input type="checkbox"/>
(check applicable boxes)	1s 1b 2s 3s	<input type="checkbox"/> Water Hyacinth	Asian Carp <input type="checkbox"/>
1 L HDPE bottle (TSS/VSS)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Water Lettuce	Round Goby <input type="checkbox"/>
250 mL HDPE bottle (Alkalinity, Chloride)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Purple Loosestrife	Rusty Crayfish <input type="checkbox"/>
500 mL HDPE bottle w/Acid (Nutrients)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Flowering Rush	Red Swamp Crayfish <input type="checkbox"/>
Chlorophyll sample collection depth (ft.) =	n/a	<input type="checkbox"/> Phragmites	Starry Stonewort <input type="checkbox"/>
Chlorophyll sample volume filtered (mL) =	n/a	<input type="checkbox"/> List Others:	

Date Cooler Mailed: _____	<input type="checkbox"/> RFLAs (lab sheets) are inside cooler
Datasheet entered online? Yes <input type="checkbox"/> No <input type="checkbox"/>	

## Dissolved Oxygen / Temperature Profile - Illinois EPA Lake Monitoring

Lake Name <b>Valley</b>	County Name <b>Lake</b>	Volunteer Name(s): <b>Marian Kowalski</b> Date: <u>05/14/2021</u> (mm:dd:yyyy)
Program: <b>Volunteer Lakes</b>	Barometer Reading: <u>737</u> mm Hg	Meter Brand/Model or IEPA Case/Meter #: <u>29</u>

Station Code: <b>RGZM-1</b>	Station Code: <b>RGZM-2</b>	Station Code: <b>RGZM-3</b>
Time: <u>10:44</u>	Time: <u>10:57</u>	Time: <u>11:07</u>

Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp
0	7.7	19.1	0	8.0	18.0	0	7.9	18.3
1	7.9	18.2	1	7.9	17.9	1	7.9	18.2
3	7.9	17.9	3	7.8	17.4	3	7.8	17.5
5	7.9	17.6	5	7.7	17.2	5	7.7	17.1
7	7.9	17.4	7	7.7	17.0	7	7.8	17.0
9	7.9	17.2	9	.	.	9	.	.
11	.	.	11	.	.	11	.	.
13	.	.	13	.	.	13	.	.
15	.	.	15	.	.	15	.	.
17	.	.	17	.	.	17	.	.
19	.	.	19	.	.	19	.	.
21	.	.	21	.	.	21	.	.
23	.	.	23	.	.	23	.	.
25	.	.	25	.	.	25	.	.
27	.	.	27	.	.	27	.	.
29	.	.	29	.	.	29	.	.
31	.	.	31	.	.	31	.	.
33	.	.	33	.	.	33	.	.
35	.	.	35	.	.	35	.	.
37	.	.	37	.	.	37	.	.
39	.	.	39	.	.	39	.	.
41	.	.	41	.	.	41	.	.
43	.	.	43	.	.	43	.	.
45	.	.	45	.	.	45	.	.
47	.	.	47	.	.	47	.	.
49	.	.	49	.	.	49	.	.

## VOLUNTEER LAKE MONITORING PROGRAM-SECCHI MONITORING

DIRECTIONS: Anchor boat at each monitoring site. Fill out form as completely and neatly as possible.

Name: Valley Lake Date (mm/dd/yy): 05/31/21  
 Lake Code: RGZM Telephone: 224-321-6159  
 Please list First and Last names of ALL individuals that assisted with this monitoring trip.

Volunteer Name(s): Marian Kowalski

Time (24 hr. (hh:mm))	Secchi Depth (nearest inch)	Secchi Visible		Secchi Hidden		Aquatic Plants at Site (circle one)				Color	Total Depth (nearest 1/2 ft.)	DO/Temp taken?		
		on Bottom?		by Plants?		1	2	3	4					
9:10	100	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Y	<input checked="" type="radio"/> N	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	8	9.0	<input checked="" type="radio"/> Y	<input type="radio"/> N
9:24	84	<input checked="" type="radio"/> Y	<input type="radio"/> N	Y	<input checked="" type="radio"/> N	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	3	7.0	<input checked="" type="radio"/> Y	<input type="radio"/> N
9:34	78	<input checked="" type="radio"/> Y	<input type="radio"/> N	Y	<input checked="" type="radio"/> N	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	3	6.5	<input checked="" type="radio"/> Y	<input type="radio"/> N
:		Y	N	Y	N	0	1	2	3	4		.	Y	N
:		Y	N	Y	N	0	1	2	3	4		.	Y	N
:		Y	N	Y	N	0	1	2	3	4		.	Y	N
:		Y	N	Y	N	0	1	2	3	4		.	Y	N

**General Weather Conditions**  
 Condition (out of): 5  
 Rain (last 48 hrs.): 0 inches

**Cloud Cover (check one)**  
 Sunny  Overcast  Calm/Ripple  Small  
 Partly Cloudy/Partly Sunny  Hazy  Moderate  White Caps

**Waves (check one)**  
 Small  Moderate  White Caps

**Lake Level is:**  
 1" or Full Pool  
 Normal by 2 inches  
 High by 2 inches  
 (gauge units)

**Volunteer Hours**  
 (to nearest 1/2 hour)  
include preparation, monitoring & paperwork time  
 Number of Volunteers: 1  
 Number of Hours per Volunteer: X 1.5  
 Total Volunteer Hours = 1.5

**Aquatic Plant Coverage (check only one)**  
 Percentage of the **entire** lake area containing surface and submerged aquatic plants.  
 Less than 5%  
 5 to 25%  
 26 to 50%  
 51 to 70%  
 Greater than 70%

**Observations** (including recent weather conditions, lake changes, aquatic plants present, recreational usage, etc.)

**Lake/Watershed Management** (list techniques ongoing or applied since last monitoring; include dates & details when possible)

**Harmful Algal Bloom Watch**

Cyanobacteria (blue-green algae) bloom present? Y  N  
 Have a Bloom Report form & photos been submitted to IEPA? Y  N  
 Has the bloom been reported using the bloomWatch app? Y  N

**Water Quality and Chlorophyll Sampling** (s = surface, b = bottom)

Sample (check applicable boxes)	1s	1b	2s	3s				
Sample (TSS/VSS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottle (Alkalinity, Chloride)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottle w/Acid (Nutrients)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample collection depth (ft.) =		n/a						
Sample volume filtered (mL) =		n/a						

RFLAs (lab sheets) are inside cooler  
 Entered online? Yes  No

**Aquatic Exotics: (check all suspected exotics)**

<input type="checkbox"/> Eurasian Watermilfoil	<input type="checkbox"/> Zebra Mussel
<input type="checkbox"/> Curlyleaf Pondweed	<input type="checkbox"/> Quagga Mussel
<input type="checkbox"/> Hydrilla	<input type="checkbox"/> Common Carp
<input type="checkbox"/> Brazilian Elodea	<input type="checkbox"/> Grass Carp
<input type="checkbox"/> Water Hyacinth	<input type="checkbox"/> Asian Carp
<input type="checkbox"/> Water Lettuce	<input type="checkbox"/> Round Goby
<input type="checkbox"/> Purple Loosestrife	<input type="checkbox"/> Rusty Crayfish
<input type="checkbox"/> Flowering Rush	<input type="checkbox"/> Red Swamp Crayfish
<input type="checkbox"/> Phragmites	<input type="checkbox"/> Starry Stonewort
<input type="checkbox"/> List Others:	

## Dissolved Oxygen / Temperature Profile - Illinois EPA Lake Monitoring

Lake Name <b>Valley</b>	County Name Volunteer	Lake Name(s): Marian Kowalski
Program: Volunteer Lakes	Barometer Reading: 737 mm Hg	Date: <u>05/31/2021</u> (mm:dd:yyyy)
		Meter Brand/Model or IEPA Case/Meter #: 29

Station Code: <b>RGZM-1</b>	Station Code: <b>RGZM-2</b>	Station Code: <b>RGZM-3</b>
Time: <u>09:10</u>	Time: <u>09:24</u>	Time: <u>09:34</u>

Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp
0	8.1	18.7	0	8.0	18.6	0	8.2	18.4
1	8.0	18.7	1	7.9	18.6	1	8.2	18.5
3	7.8	18.6	3	7.9	18.6	3	8.2	18.4
5	7.7	18.6	5	7.9	18.5	5	8.2	18.3
7	7.4	18.5	7 <sup>65</sup>	7.8	18.5	7 <sup>6</sup>	8.0	18.3
9 <sup>85</sup>	7.1	18.5	9	.	.	9	.	.
11	.	.	11	.	.	11	.	.
13	.	.	13	.	.	13	.	.
15	.	.	15	.	.	15	.	.
17	.	.	17	.	.	17	.	.
19	.	.	19	.	.	19	.	.
21	.	.	21	.	.	21	.	.
23	.	.	23	.	.	23	.	.
25	.	.	25	.	.	25	.	.
27	.	.	27	.	.	27	.	.
29	.	.	29	.	.	29	.	.
31	.	.	31	.	.	31	.	.
33	.	.	33	.	.	33	.	.
35	.	.	35	.	.	35	.	.
37	.	.	37	.	.	37	.	.
39	.	.	39	.	.	39	.	.
41	.	.	41	.	.	41	.	.
43	.	.	43	.	.	43	.	.
45	.	.	45	.	.	45	.	.
47	.	.	47	.	.	47	.	.
49	.	.	49	.	.	49	.	.

## VOLUNTEER LAKE MONITORING PROGRAM-SECCHI MONITORING

DIRECTIONS: Anchor boat at each monitoring site. Fill out form as completely and neatly as possible.

Lake Name: Valley Lake Date (mm/dd/yy): 06/09/21  
 County: Lake Lake Code: RGZM Telephone: 224-321-6159

Please list First and Last names of ALL individuals that assisted with this monitoring trip.

Volunteer Name(s): Marian Kowalski

Site	Time 24 hr. (hh:mm)	Secchi Depth (nearest inch)	Secchi Visible on Bottom?		Secchi Hidden by Plants?		Aquatic Plants at Site (circle one)				Color	Total Depth (nearest 1/2 ft.)	DO/Temp taken?		
			Y	N	Y	N	0	1	2	3			4	Y	N
1	15:17	108	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	9.0	<input checked="" type="radio"/>	<input type="radio"/>
2	15:35	84	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	7.0	<input checked="" type="radio"/>	<input type="radio"/>
3	15:58	78	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	6.5	<input checked="" type="radio"/>	<input type="radio"/>
	:		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		.	<input type="radio"/>	<input type="radio"/>
	:		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		.	<input type="radio"/>	<input type="radio"/>
	:		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		.	<input type="radio"/>	<input type="radio"/>
	:		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		.	<input type="radio"/>	<input type="radio"/>

<b>General Weather Conditions</b> Wind Direction (out of): <u>S</u> Amount of Rain (last 48 hrs.): <u>.11</u> inches	<b>Cloud Cover (check one)</b> <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy/Partly Sunny	<b>Waves (check one)</b> Overcast <input type="checkbox"/> <input checked="" type="checkbox"/> Calm/Ripple <input type="checkbox"/> Small <input type="checkbox"/> Hazy <input type="checkbox"/> <input type="checkbox"/> Moderate <input type="checkbox"/> White Caps <input type="checkbox"/>
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<b>Lake Level is:</b> <input type="checkbox"/> "Normal" or Full Pool <input type="checkbox"/> Above normal by _____ inches <input checked="" type="checkbox"/> Below normal by <u>3</u> inches Gage Reading: _____ (if applicable) (gage units)	<b>Volunteer Hours</b> (to nearest 1/2 hour) include preparation, monitoring & paperwork time Number of Volunteers: <u>1</u> Number of Hours per Volunteer: <u>1.5</u> Total Volunteer Hours = <u>1.5</u>	<b>Aquatic Plant Coverage (check only one)</b> Percentage of the entire lake area containing surface and submerged aquatic plants. <input checked="" type="checkbox"/> Less than 5% <input type="checkbox"/> 5 to 25% <input type="checkbox"/> 26 to 50% <input type="checkbox"/> 51 to 70% <input type="checkbox"/> Greater than 70%
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<b>Additional Observations</b> (including recent weather conditions, noticeable lake changes, aquatic plants present, recreational usage, etc.) <u>has been very warm - lots of filamentous algae in the lake</u>	<b>Lake/Watershed Management</b> (list techniques ongoing or applied since last monitoring; include dates & details when possible)
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<b>Harmful Algal Bloom Watch</b> Is a cyanobacteria (blue-green algae) bloom present? Y <input checked="" type="radio"/> N <input type="radio"/> If Yes: a) have a Bloom Report form & photos been submitted to IEPA? Y <input type="radio"/> N <input type="radio"/> OR b) has the bloom been reported using the bloomWatch app? Y <input type="radio"/> N <input type="radio"/>	<b>Aquatic Exotics:</b> (check all suspected exotics) <input type="checkbox"/> Eurasian Watermilfoil <input type="checkbox"/> Zebra Mussel <input type="checkbox"/> <input type="checkbox"/> Curlyleaf Pondweed <input type="checkbox"/> Quagga Mussel <input type="checkbox"/> <input type="checkbox"/> Hydrilla <input type="checkbox"/> Common Carp <input type="checkbox"/> <input type="checkbox"/> Brazilian Elodea <input type="checkbox"/> Grass Carp <input type="checkbox"/> <input type="checkbox"/> Water Hyacinth <input type="checkbox"/> Asian Carp <input type="checkbox"/> <input type="checkbox"/> Water Lettuce <input type="checkbox"/> Round Goby <input type="checkbox"/> <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> Rusty Crayfish <input type="checkbox"/> <input type="checkbox"/> Flowering Rush <input type="checkbox"/> Red Swamp Crayfish <input type="checkbox"/> <input type="checkbox"/> Phragmites <input type="checkbox"/> Starry Stonewort <input type="checkbox"/> <input type="checkbox"/> List Others:
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Water Quality and Chlorophyll Sampling (s = surface, b = bottom)						
(check applicable boxes)	1s	1b	2s	3s		
1 L HDPE bottle (TSS/VSS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
250 mL HDPE bottle (Alkalinity, Chloride)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
500 mL HDPE bottle w/Acid (Nutrients)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chlorophyll sample collection depth (ft.) =		n/a				
Chlorophyll sample volume filtered (mL) =		n/a				

Date Cooler Mailed: \_\_\_\_\_  RFLAs (lab sheets) are inside cooler  
 Datasheet entered online? Yes  No

## Dissolved Oxygen / Temperature Profile - Illinois EPA Lake Monitoring

Lake Name <b>Valley</b>	County Name <b>Lake</b>	Volunteer Name(s): <b>Marian Kowalski</b>
Program: <b>Volunteer Lakes</b>		Date: <u>06/09/2021</u> (mm:dd:yyyy)
Barometer Reading: <u>732</u> mm Hg		Meter Brand/Model or IEPA Case/Meter #: <u>29</u>

Station Code: <b>RGZM-1</b>	Station Code: <b>RGZM-2</b>	Station Code: <b>RGZM-3</b>
Time: <u>15:17</u>	Time: <u>15:35</u>	Time: <u>15:58</u>

Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp	Depth (feet)	DO (Round to nearest 10th)	Temp
0	9.8	30.1	0	10.3	29.3	0	10.9	29.6
1	10.1	29.2	1	10.3	29.4	1	11.0	29.6
3	10.2	28.4	3	11.9	28.0	3	12.2	28.7
5	9.9	27.5	5	12.7	27.2	5	12.9	27.9
7	10.0	27.2	7.5	15.7	27.0	7.6	13.5	27.6
9.5	14.0	26.6	9	.	.	9	.	.
11	.	.	11	.	.	11	.	.
13	.	.	13	.	.	13	.	.
15	.	.	15	.	.	15	.	.
17	.	.	17	.	.	17	.	.
19	.	.	19	.	.	19	.	.
21	.	.	21	.	.	21	.	.
23	.	.	23	.	.	23	.	.
25	.	.	25	.	.	25	.	.
27	.	.	27	.	.	27	.	.
29	.	.	29	.	.	29	.	.
31	.	.	31	.	.	31	.	.
33	.	.	33	.	.	33	.	.
35	.	.	35	.	.	35	.	.
37	.	.	37	.	.	37	.	.
39	.	.	39	.	.	39	.	.
41	.	.	41	.	.	41	.	.
43	.	.	43	.	.	43	.	.
45	.	.	45	.	.	45	.	.
47	.	.	47	.	.	47	.	.
49	.	.	49	.	.	49	.	.