

February 9, 2018

Revised: February 12, 2018

Kusel, Wilson, Round Lakes Rehabilitation District
Wild Rose, WI 54948

Sent Via Email: JCGaboury@jjkeller.com
pszimmer1@hotmail.com

Re: Costs for 2018 Lake Management Activities

Dear Mr. Zimmer & Gaboury:

In response to your request, Wisconsin Lake & Pond Resource, LLC (WLPR), has prepared a cost estimate for comprehensive lake and aquatic plant management services for Kusel and Wilson Lakes, Waushara County. This scope of services briefly describes the proposed work plan, anticipated project schedule and estimated project costs. All work would be completed in accordance with applicable federal, state, and local regulations, as outlined below.

Work Scope

These costs include labor, equipment, chemical costs, and direct costs to complete the described work plan. If more than one mobilization is required because DNR does not allow the treatment or it is outside of the allowable label parameters because of weather or other environmental factors, multiple mobilization charges may apply. Chemical and equipment costs are based on the referenced products, application rates and acreages and those costs are fixed as proposed, per unit labor costs generally increase as the treatment area decreases and are subject to change based on the final DNR approved treatment areas and application rates.

TASK 1.0 PREPARE WDNR & NPDES PERMIT APPLICATIONS

WLPR will use the maps created in the preliminary aquatic plant survey for the permit application, if applicable. Data will be gathered from the WDNR and any other sources available. Once the permit application(s), riparian owner notification, and legal notices are completed, all will be submitted to the lake group for signature and the appropriate permit fees as well as any publishing requirements. It will be the lake group's responsibility to then forward to WDNR for approval. Permit fee will be covered by the District.

TASK 2.0 EDUCATIONAL MAILING (OPTIONAL)

A packet of information regarding the proposed treatment would be distributed to riparian property owners consistent with NR107.04 (3) that are located within or adjacent to the permitted application (150') areas. It is assumed that the Association will provide an Excel spreadsheet mailing list of all riparian property owners to WLPR. ***It is also assumed for the purposes of this proposal that this Task will be completed by the lake group***, and it must be completed at least 15 days prior to the chemical treatment. Any local publishing requirements in local newspaper(s), if the treatment is in excess of 10 acres, will be the responsibility of the lake group. All pertinent information for notification will be provided by WLPR



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TASK 3.0 EARLY-SEASON CURLY-LEAF PONDWEED SURVEY

Curly-leaf pondweed is an invasive species with a unique life cycle where it begins growing very early in the year, often prior to or during ice cover, and dies back by mid-summer. Because of this, CLP's true abundance is often misrepresented during aquatic plant surveys used to assess the entire community of the lake.

Curly-leaf pondweed is an invasive species that has been noted in both Kusel and Wilson Lakes at varying levels. To assure that dense populations of CLP are not present, WLPR will complete early-season surveys to more accurately assess current populations. Both lakes will be sampled with any populations of CLP noted and mapped and, if necessary, included for management in 2018.

TASK 4.0 HERBICIDE TREATMENT TARGETING HYBRID WATER-MILFOIL AND /OR CURLY-LEAF PONDWEED

Kusel and Wilson Lake both have Eurasian water-milfoil present, confirmed as a hybrid cross with native strains. Hybrid water-milfoil (HWM) has been actively managed on both lakes from small scale application (<5 acres) to whole-lake rates. Typically this has been completed with the active ingredient 2,4-D. While 2,4-D can be effective in controlling EWM, current research is showing that varying methods of control, including active ingredients, is necessary to see success. Some strains of HWM have shown tolerance to 2,4-D and resulted in failures of treatments.

Upon review of past treatments on Kusel and Wilson Lake and in order to achieve better control results we propose to vary the active ingredients used for HWM control in 2018. On Kusel Lake we recommend using the herbicide Aquasrike, a combination of the active ingredients diquat and endothall. This mix has shown good success in controlling HWM. Application would be completed to areas of active HWM growth mapped during the 2017 surveys (Figures 2). For areas that are adjacent to deeper water and/or small satellite locations, such as locations B & C in Kusel Lake we recommend applying at higher rates of 1.625 gal/acre-foot. For areas nearer each other and in shallower water we recommend reduced rates of 1.25-1.5 gal/acre-foot. The whole-lake treatment for curly-leaf pondweed described below is anticipated to have some effect on the HWM population in Wilson Lake. Therefore we recommend targeting HWM in Kusel Lake only for 2018.

Application is anticipated to take place in late April – early May and during the same day as the CLP treatment on Wilson Lake. Proposed rates and overall product requirements for HWM control in Kusel Lake are outlined by treatment areas in the table below.

Proposed Aquasrike Application Rates for HWM Control					
Lake	Area	Size (ac)	Avg. Depth (ft)	Application Rate (gal/ac ft)	Aquasrike Required (gal)
Kusel	A	1	6	1.5	9
	B	1.25	8	1.625	16.25
	C	1.35	12	1.625	26.25
	TOTAL	3.6	---	---	51.5



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Wilson Lake began a multi-year approach for CLP control in 2017 with an emphasis on whole-lake application rates using the herbicide Aquathol K, active ingredient endothall. Though the population of curly-leaf pondweed as noted during the 2017 point-intercept surveys was sporadic, it had likely died back for the year at the time of the survey. Due to CLP's growth cycle multiple years of application to the same areas is required to deplete the turion build up in the lake's sediments. To continue this approach an application of 0.75 PPM calculated to the entire water volume of Wilson Lake is recommended to approximately the same 10.7 acre areas as in 2017.

To more accurately achieve target rates WLPR created updated bathymetry and water volume for Wilson Lake using data collected in 2017. Whole lake dosing of Aquathol K for CLP control in Wilson Lake was calculated on a per-basin amount as outlined in the table below and displayed on Figure 6.

Proposed Aquathol Application Rates for CLP Control - 0.75 PPM					
Lake	Area	Size (ac)	Avg. Depth (ft)	Volume (ac/ft)	Aquathol K Required (gal)
Wilson	East Basin	40	2.58	103.2	49.75
	West Basin	36.4	6	218.4	105.25
	TOTAL	76.4	---	321.6	155

Task 5.0 CHEMICAL TREATMENT TARGETING GENERAL NAVIGATIONAL NUISANCE SPECIES

Some locations of Kusel or Wilson Lake can see dense growth of native aquatic plant species that may cause a nuisance to navigation. In particular the west basin of Wilson Lake and channel into the Campground in Kusel Lake were noted as locations that may see a navigational nuisance from dense native aquatic plant growth. If either of these areas are noted to be experiencing dense growth during Task 6.0 below, the location and area of all treatment areas will be documented with global position system (GPS) technology. All products proposed are registered by the EPA, DATCP, and the WDNR for use in Wisconsin to remove populations of nuisance aquatic plant growth. Areas seeing nuisance growth from non-algal species will be treated with a 2:3 mixture of the active ingredients diquat and liquid copper. For cost-estimation purposed total treatment to 5.0 acres is supplied.

Task 6.0 MONTHLY SITE VISIT

Under this task, WLPR will perform a site visit once per month on Kusel and Wilson Lake from May-September to assess conditions, results of past management, and/or plan for upcoming management requirements. When possible the monthly site visit actions will be coupled with other pre-planned tasks (treatment, aeration, etc.) to defray costs. During each site visit WLPR will:

- Sample select locations for aquatic plant diversity and density
- Assess current conditions for management recommendations
- Observe water quality conditions
- Visually assess and monitor the Wilson Lake outflow for obstructions or impairments
- Monitor for newly introduced AIS
- Submit a monthly health assessment report for each lake to the District



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Task 7.0 AQUATIC PLANT SURVEYS AND MAPPING

Based on 2017 comprehensive survey results, a full repeat of that survey is not warranted at this time. WLPR will conduct limited late-season aquatic plant surveys on Kusel and Wilson Lake to assess 2018 management options and prepare for 2019. Approximate schedule for the survey is late August or early September, 2018 to ensure any aquatic plants present can be collected and identified. Data collected at each sample point will include species presence and density, depth, GPS location, and bottom substrate. This data will be compiled in the WDNR spreadsheet (WiAPMS.xl) and submitted to the District. Data collected will be used to create maps of any aquatic invasive species present and compared with historical data to assess ongoing results of AIS control and plan for potential management in 2019.

Task 8.0 AERATION MAINTENANCE ACTIVITIES & ASSESSMENT

WLPR will pull up and clean diffuser heads on the Wilson Lake aeration system in preparation for overwinter use. In addition, it is recommended that WLPR be allowed access to the aeration cabinets and compressors to accurately assess the current condition of the system.

During the fall, 2017 aeration maintenance of Wilson Lake performed by WLPR only 15 diffusers were located while there were potentially up to 18 within the lake. At this time three different types of diffusers were present. Each type of diffuser has different operating pressures that can labor the air supply and cause lines with higher pressure requirements to not work correctly if lower pressure diffusers are on running on the same compressor or manifold.

Due to this we recommend upgrading diffusers within Wilson Lake to ensure a properly working system. This can be completed all at one time or in multiple stages. If completed during multiple stages it is recommend to upgrade diffuser on aeration lines that are run into individual compressors or manifolds to ensure equal operating pressures within the sub-system.

Task 9.0 MISCELLANEOUS LAKE MANAGEMENT ACTIVITIES

Any activity not associated with the above tasks requested by the District will be billed on a time and material basis. Actions may include, but are not limited to, additional water quality sampling or associated lab costs, aquatic vegetation mapping, reporting, and others. Expected costs of any requested activity will be submitted to the District for approval prior to completing.

SCHEDULE AND ESTIMATED COST

Work can begin on this project once a signed contract is received. All field work will be coordinated with the Client and the WDNR. WLPR will work with the Client to ensure the treatment is completed and effective prior to significant use times such as weekends and holidays.

Task 1.0 Prepare WDNR Permit & NPDES Applications (no permit fees included) **\$250.00**

Task 2.0 Educational Mailing (*optional*) Base fee \$150 + \$1.50 each piece mailed = **\$Actual Costs**

Task 3.0 Early Season CLP survey and mapping – both lakes **\$1,685.00**

Task 4.0 Herbicide Treatment of HWM and/or CLP

HWM Treatment – Kusel Lake

Aquastrike at varying rates to 3.6 ac (51.5 gal) **\$4,164.29**

Whole-lake CLP Treatment – Wilson Lake

Aquathol K applied to 10.7 ac at 0.75 PPM whole-lake (155 gal) **\$15,610.05**

Labor and Mobilization Costs – Both Lakes

Total Treatment area of 14.3 acres * \$140/acre **\$2,002.00**

Mobilization, equipment, & vehicle/boat cost **\$500.00**

Subtotal Cost \$22,276.34

Task 5.0 Chemical Treatment Targeting General Navigational Nuisance Species

Liquid diquat at 2.0 gal/ac and liquid copper at 3.0 gal/ac to 5.0 ac **\$1,272.50**

Total Treatment area of 5.0 ac \$140/ac **\$700**

Mobilization, equipment, and vehicle/boat charge **\$500.00**

Subtotal Cost \$2,472.50

Task 6.0 Monthly Site Visit and Lake Assessment Update

Monthly Site Visit May – September @ \$750.00 / visit **\$3,750.00**

Subtotal Cost \$3,750.00

Task 7.0 Aquatic Plant Surveys and Mapping

Labor Cost – survey of both lakes **\$1,200.00**

Mobilization, equipment, and vehicle/boat charge **\$500.00**

Mapping & data entry **\$380.00**

Subtotal Cost \$2,080.00



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Task 8.0 Aeration Maintenance Activities and Assessment

Diffuser Cleaning - \$30/each, anticipated 15 total	\$450.00
Mobilization, equipment, and vehicle/boat charge	\$500.00
Diffuser head upgrade	\$190-230 ea
General equipment repair labor for two person crew	\$150/hr
Aeration maintenance and repair parts	<u>\$TBD</u>
Diffuser Cleaning Subtotal	\$950.00
System Repair or Upgrade	\$TBD

Task 9.0 Miscellaneous Lake Management Activities

General labor rate	\$95.00/hr
General mobilization, equipment, and vehicle/boat charge	\$500.00
Various lab costs for water quality sampling	<u>\$TBD</u>
Subtotal Cost	\$TBD

Total Costs Tasks 1.0-7.0 and 8.0 (cleaning) only **\$33,463.84**

***Total estimated costs exclude any permit application fees** (\$20 base fee and \$25 per acre up to 50 acres – Max permit fee is \$1,270), or any residual samples or dyes. If multiple treatments are required or a treatment is canceled after the crew(s) are on-site, additional mobilization charges may apply.

TBD: To be determined. Tasks with this designation are ambiguous and may vary based on conditions or District desires at time of completion. Tasks will be completed only under authorization from the District. WLPR will submit a proposal outlying tasks prior to beginning.

WLPR offers our clients a complete package of insurance including statutory liability, comprehensive general liability, automobile liability, errors and omissions and pollution liability. A copy of which is available upon request, or execution of this contract. A copy of regulatory and/or lake client references is available upon request.



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PAYMENT TERMS & CONDITIONS

Payment for services and expenses are due upon receipt, and will accrue interest after 30 days. Final reports will be withheld until all payments are made in full. Invoices for the services performed will be submitted either upon completion of such services or on a monthly basis. Refer to the attached Agreement for additional terms and conditions.

We are pleased to submit this proposal and trust this information meets your needs. The above-stated fee proposed for this scope of services is valid for 90 days from the date of this proposal and are subject to annual adjustments. Upon review and acceptance of the proposal and attached Standard terms and Conditions, please return a signed copy of this Agreement in its entirety via mail, fax or email, keeping one copy for your records.

If you have any questions, or require any additional information, please don't hesitate to contact us at (920) 872-2032 or via email at jim@wisconsinlpr.com. We thank you for this opportunity and look forward to working with you on this project.

Sincerely,

Jim Scharl
Aquatic Management Specialist

Cory Zickert
Senior Aquatic Manager/President



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Terms and Conditions

The following Terms and Conditions are attached to and form part of a proposal for lake management services to be performed by Wisconsin Lake & Pond Resource, LLC (herein after referred to as WLPR) when the Customer authorizes WLPR to proceed with the services, shall constitute the AGREEMENT. This shall encompass all related lake management services for the Client, unless already under contract with another provider for additional or similar services at the time of this Agreement.

SERVICE, EQUIPMENT & MATERIAL COSTS: *SEE ATTACHED PROPOSAL FOR A BREAKDOWN OF SPECIFIC COSTS*

Travel, mileage or lump sum mobilization charge per each service date if applicable, will be based on the site location as outlined in the proposal. Additional services that are specifically requested by the Customer, and that are not covered in this contract, will be billed at a flat rate of \$75 - \$100/hour/employee or quoted per project.

BILLING AND TERMS: Balance of payment will be due upon receipt of invoice. A late payment fee of \$15, plus financing charges of 1.5% per month, will be applied to balances more than 30 days past due.

PERMITS: It is understood by both parties that state, federal, and/or local permits may be required prior to performing aquatic management, installation or construction services. WLPR will provide assistance in completing the permit(s) as outlined in the proposal and provide permit applications to the Customer, the Customer hereby agrees and is responsible to sign and submit said permit(s) with the appropriate fees to each required governmental entity prior to commencement of aquatic management services performed by WLPR. The Customer understands and agrees there may be certain liabilities and responsibilities within these permits.

PROFESSIONAL EXPECTATIONS AND LIABILITY: WLPR shall provide professional trained, insured and licensed staff to perform aquatic management, installation or construction services. WLPR staff shall exercise reasonable standard of care and will comply with the labeled requirements of all E.P.A. registered aquatic pesticides pertaining to transportation, application and disposal, and will also post required warning signs that list any water use restrictions indicated on the label. Therefore, WLPR is not liable for personal, environmental or property damages that may occur as a result of applications of aquatic pesticides.

LIABILITY: The Customer releases WLPR from any liability and agrees to defend, indemnify and hold WLPR harmless from any claims, damages, losses, and/or expenses; direct or indirect that arise out of the performance of said services, excepting liability arising from the sole negligence of WLPR or its employees, shall be responsible and liable for its staff while performing agreed upon services which are the subject of this agreement. It is further agreed that the total amount of all claims that the Customer may have against WLPR under this agreement; shall be limited to the lesser of fees paid to WLPR for services or \$50,000. No claim shall be brought against WLPR more than 2 years after the cause of action arose, and claim shall be brought in Fond du lac County.

BUDGET: A budgetary range has been established based on multiple criteria. While the recommended budget is required to successfully manage the described waters, WLPR reserves the right to request adjust the budget amount if there is a change in the scope, size of the management areas, product or application rates. If this results in additional costs to the Customer, this request, with the change in scope will be in submitted in writing and shall be approved by the Customer, prior to the work being completed.



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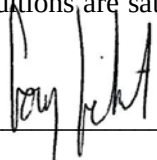
ENVIRONMENTAL LOSS: While WLPR staff shall make every effort to reduce the risk of loss of non-target aquatic life, including fish, this risk remains inherent with any aquatic management, installation or construction services. Therefore WLPR is not liable for any non-target loss, the Customer understands and accepts the risks associated with potential aquatic management activities.

SITE ACCESS: Customer agrees to provide a suitable vehicle access and boat launch to Customer's waters, if there is a fee to launch the Customer agrees to waive (if possible) or alternatively reimburse said launch fees, as part of the project costs billed to the Customer. In the absence of suitable access and launch, WLPR shall not be liable for damages done to lawns, shorelines or other property that may occur during access to the waterway.

TERMINATION: Either party may termination this agreement without cause upon 30 days written notice. Upon termination by either party, the Customer shall pay all outstanding fees for services render under this agreement to the effective date of termination.

WARRANTY: Aquatic Applications - given the numerous environmental variables associated with aquatic applications, no product performance guaranty or warranty, other than those provided by the manufacturer, are given or implied. Motors, electrical equipment, and components – warranties vary on these items due to different manufacturers. Please inquire with WLPR regarding specific warranties.

CUSTOMER AUTHORIZATION: The attached Proposal (and/or subsequent work orders or task revisions) and above Terms and Conditions are satisfactory and are hereby accepted. WLPR is authorized to perform all of the work as described.

WLPR Representative:  Date: 02/09/2018

Customer: Jeremy J Gaboury Date: Mar 13, 2018

Authorized Representative Signature: 
Jeremy J Gaboury (Mar 13, 2018)

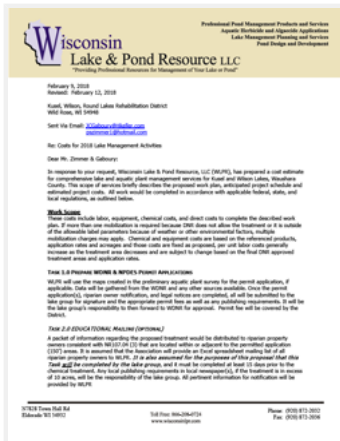
Customer Contact Name (Printed): Jeremy J Gaboury

Email: jgaboury@jjkeller.com Phone Number: 920-830-0847

Customer Billing Address: W5463 Archer Lane Wild Rose WI 54984

Signature: 
Paul Zimmer (Feb 20, 2018)

Email: pszimmer1@hotmail.com



Wisconsin Lake & Pond Resource 2018 Management Agreement for Kusel, Wilson

Adobe Sign Document History

03/13/2018

Created:	02/20/2018
By:	Wisconsin Lake & Pond Resource (kathy@wisconsinlpr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAkcsdluDwXtIU_NjLek_LQJeETPxNkTDk

"Wisconsin Lake & Pond Resource 2018 Management Agreement for Kusel, Wilson" History

-  Document created by Wisconsin Lake & Pond Resource (kathy@wisconsinlpr.com)
02/20/2018 - 1:05:04 PM CST- IP address: 68.191.182.166
-  Document emailed to Jeremy J Gaboury (jgaboury@jkkeller.com) for signature
02/20/2018 - 1:07:54 PM CST
-  Document emailed to Paul Zimmer (pszimmer1@hotmail.com) for signature
02/20/2018 - 1:07:54 PM CST
-  Document viewed by Paul Zimmer (pszimmer1@hotmail.com)
02/20/2018 - 4:41:20 PM CST- IP address: 207.200.227.195
-  Document e-signed by Paul Zimmer (pszimmer1@hotmail.com)
Signature Date: 02/20/2018 - 4:43:34 PM CST - Time Source: server- IP address: 207.200.227.195
-  Document viewed by Jeremy J Gaboury (jgaboury@jkkeller.com)
03/13/2018 - 10:40:48 AM MDT- IP address: 96.11.15.245
-  Document e-signed by Jeremy J Gaboury (jgaboury@jkkeller.com)
Signature Date: 03/13/2018 - 10:41:39 AM MDT - Time Source: server- IP address: 96.11.15.245
-  Signed document emailed to Wisconsin Lake & Pond Resource (kathy@wisconsinlpr.com), Paul Zimmer (pszimmer1@hotmail.com) and Jeremy J Gaboury (jgaboury@jkkeller.com)
03/13/2018 - 10:41:39 AM MDT