



GUN LAKE

Barry & Allegan Counties

Bid for Aquatic Plant Herbicide Treatments of Gun Lake, Barry & Allegan Counties, Michigan

Submitted by:

Luke Britton

SOLitude Lake Management, LLC

May 8, 2024



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Gun Lake Improvement Board
GLIB c/o Barry County Drain Commission
220 W. State Street
Hastings, MI 49058

Dear Jim Dull, Secretary/Treasurer:

Thank you for allowing SOLitude Lake Management, LLC to bid on the Nuisance Aquatic Plant Control project from 2025 through 2027.

SOLitude's integrated environmental management approach takes into consideration the interactions and relationships between the lake's ecosystem and aquatic management. This holistic approach delivers the most efficient and effective treatment methods for your environment. We understand that each body of water is an environment of its own, and thus requires a treatment of its own. SOLitude Lake Management looks forward to working with you!

Thank you again for giving SOLitude Lake Management the opportunity to submit this proposal. Our goal is for you and the community to enjoy the recreational and aesthetic value of Gun Lake to the fullest. If you have any questions, please do not hesitate to call or send me an email.

Best regards,

Luke Britton
District Manager, Michigan
lucas.britton@solitudelake.com



SOLitude Lake Management Service References:

Lake Templene - 900 Acres in St. Joseph County
Contact: Jeff Wenzel (269) 625 – 4623

Lake Diane – 400 Acres in Hillsdale County
Contact: Roger Giallorati (248) 515 – 9378

Huzzy Lake – 90 Acres in Van Buren County
Contact: Kathy Newton (269) 624 – 1800

SOLitude Lake Management Service Contact and Insurance Information:

Company Name: SOLitude Lake Management
Address: 12315 Cleveland Street, Suite E, Nunica, MI 49448
Contact: Luke Britton (616) 638-6794

SOLitude Lake Management Aquatic Services Michigan Applicator License Numbers:

Luke Britton: C003050046: 28 Years of Certification
Chris Rysso: C002190496: 19 Years of Certification
Mitch Hiler: C003100223: 16 Years of Certification
Michael Kroll: C005120319: 15 Years of Certification

SOLitude Lake Management maintains worker's compensation Insurance

- Policy number 34WCI1044303.



SOLitude Lake Management Aquatic Services Equipment:

(2) 22' SOLitude Lake Management Aluminum Flat bottom boat with 90HP 4 Stroke Mercury motor. Lowrance GPS with BioBase Mapping Program. Conserve Spray System with 200-gallon chemical capacity.

(1) 14' SOLitude Lake Management Aluminum Flat Bottom Boat with 15HP 4 Stroke Mercury Motor. Lowrance GPS with BioBase Mapping Program. Conserve Spray System with 50-gallon chemical capacity.

(4) 20' SOLitude Lake Management Aluminum Flat bottom boat with 90HP 4 Stroke Mercury motor. Lowrance GPS with BioBase Mapping Program. Conserve Spray System with 200-gallon chemical capacity.

(1) 19' Carolina Skiff Boat with 65 HP Mercury Motor. Lowrance GPS with BioBase Mapping Program. Garber Spreaders. Humminbird 1157C GPS. Honda 5.5HP Spray System.

(1) 19' Combee Airboat. Lowrance GPS with BioBase Mapping Program. Garber Spreaders. Honda 5.5 HP Spray System.

*Additional equipment is available if needed.



Support Staff Expertise: (29 employees)

- **PhD level Agronomist, Chemist, Biologist - Water Resource Managers**
Provides technical support and guidance in the development and execution of business plans that grow and expand SOLitude Lake Management aquatic services business and sales.
- **Environmental scientists**
Coordinate and support field trial research and technical service projects and activities
- **Biologists**
Biologists will support the growth of SOLitude Lake Management by providing technical knowledge and support to the business plans of the region and overseeing environmental surveillance, mosquito collection, and identification activities for the operational offices in the Midwest region.
- **National and Regional Management**
The Operations Manager will direct and oversee all aquatic service operations and related activities for the Midwest operations.
- **Aquatic Consultants**
Provide day-to-day expertise to customers, coordination of all aquatic services and education
- **5 person Regulatory & Compliance Department**
The Registrations Specialist is responsible for the coordination, preparation, submission, and attainment of registrations, and providing regulatory support towards the re-registration of key technical and end-use insecticides and related Products.



SOLitude Lake Management is a global environmental products and services company. Our mission is to make communities around the world more livable, safe, and comfortable. We do this by pioneering, developing, and delivering environmentally responsible aquatic services to help create healthy aquatic environments. SOLitude Lake Management has developed an integrated environmental management approach that takes into account specific habitats, environmental sensitivities, and budget considerations.

SOLitude Lake Management understands that each body of water is an environment of its own, and thus requires a management strategy of its own. Our services include:

- Lake management, surveys, and aquatic vegetation mapping
- Invasive weed and algae control
- Phragmites control utilizing our company-owned Bell 206B-III Jet Ranger helicopter
- Aeration, including fountains and diffusers

When you work with SOLitude Lake Management, you work with a knowledgeable partner, completely invested in protecting the environment.

Conserve®

Conserve is a unique littoral zone treatment system that utilizes liquid application technology for the control of targeted aquatic vegetation. A microprocessor ensures precision product application to submerged aquatic vegetation in specific treatment zones. This results in significantly reducing aquatic pesticide usage (leaving less of a carbon footprint) while increasing efficacy. In addition, SOLitude Lake Management boats are outfitted with a flow-controlled application system, AquaFlow™, which monitors a boat's speed and automatically varies application dosage based on that speed. This works in conjunction with BioBase data-processing technology by calculating the average depth in each treatment area. As the application is made, all data is captured in real-time for integration with pre and post-mapping to satisfy all of your reporting needs, including NPDES. Transparency, accuracy, and accountability are the benefits of the Conserve system.



BioBase Mapping

The BioBase System technology provides "virtual eyes underwater" and can easily compare differences of vegetation from season to season and from year to year.

BioBase by Contour Innovations/Navico is a revolutionary bathymetric and aquatic vegetation mapping software that uses a combination of acoustic data collection techniques and powerful cloud computing. Acoustic data is gathered on the water using powerful depth finders. These data logs are then uploaded to the BioBase system for processing. By using automated processing techniques, a lake "baseline" is established for lake quality monitoring, third-party objective aquatic analysis, and important management recommendations. With the innovative BioBase system, a historical database of each aquatic environment is quickly built and maintained to monitor vegetation and other important water quality characteristics over time. This database is the catalyst for efficient management today and in the future.

Resources

From annual project management to turnkey services SOLitude Lake Management has been providing aquatic management services since 1999. Year after year we remain the most trusted provider in the industry by consistently providing comprehensive treatment strategies that leverage our expertise and cutting-edge technology to provide solutions that are ecologically responsible and effective.

Support Staff Expertise

- PhD. Level agronomist, chemist, and biologist
- Environmental scientists
- 5 person regulatory & compliance staff
- NPDES holder
- Full-time cartographers

SOLitude Lake Management's operational staff consists of over 160 certified applicators. Our applicators are led by full-time managers, supervisors, and lead applicators to help manage our customers with precision and transparency. Weekly quality assurance checks are performed and reported to management to ensure compliance with OSHA, NPDES, and the Department of Agriculture standards.

- Over 100 service vehicles
- All-terrain vehicles
- A fleet of various types of boats including airboats



Insurance

SOLitude Lake Management is able to provide the most comprehensive insurance in the industry due to our financial stability and safety record.

Commercial General Liability
\$50,000,000 per occurrence/aggregate Umbrella Liability Coverage
Worker's Compensation
Automotive Liability

BID FORM

BID DATE: May 8, 2024

BID TO: Gun Lake Improvement Board
c/o Barry County Drain Commission
220 W. State Street
Hastings, MI 49058

BID FROM: SOLitude Lake Management, LLC

(Company Name)

The undersigned bidder hereby declares that this bid is made in good faith and without fraud or collusion with any other bidder or any competitor.

The bidder has carefully read, examined, and understands the General Information, Instructions, Requirements, and Specifications for the proposed work. The bidder has investigated the lake and its condition to determine the character and difficulties attending the execution of the proposed work.

The bidder understands that the acreages listed are approximate and subject to change. The bidder agrees that the unit prices named will be used if changes are made to the quantity of work. Unless specified on this bid form, any adjustments to an application rate will result in a proportional adjustment to the unit price. For example, if Navigate is to be used at 200 pounds per acre instead of the bid rate of 150 pounds per acre, the unit cost would be increased 33% ($200/150 = 1.33$).

With the exception of the MDEGLE permit application fee, all work described in the bid specifications and required for completion of the project shall be considered as incidental work unless designated as a pay item on the Bid Form. The Board assumes no responsibility or liability for any costs incurred by the Contractor prior to the signing of an agreement. Total liability of the Board is limited to the terms and conditions of the Contract resulting from this bid document.

The undersigned agrees that this bid shall be good for 90 calendar days after the scheduled closing time for receiving bids. Within that timeframe, the Board shall provide a written Notice of Award to the successful bidder. Upon receipt of a written Notice of Award, the bidder shall enter into a formal contract with the Board incorporating the content and spirit of the bid specifications. Within 10 days of the Notice of Award, the Contractor shall deliver the required certificates of insurance described in the "Bidder Requirements". In the event the Contract and certificates of insurance are not provided within the time set the Board reserves the right to void the Notice of Award and the Contract.

The bidder understands the Board reserves the rights to reject any or all bids, to waive any irregularities in the bidding, and to award the Contract to other than the low bidder.

The bidder proposes and agrees, upon acceptance of the bid, to contract with the Board, incorporating the content and spirit of the bid specifications. The bidder will provide all necessary equipment, products, personnel, and transportation necessary to execute the work referred to in this invitation to bid. Furthermore, the bidder agrees to perform all work in the manner and time prescribed and according to the requirements of the Board.

The undersigned, having familiarized themselves with the Instructions to Bidders and the Work Specifications, hereby proposes to perform everything required and to provide and furnish all of the labor, materials, equipment, and all utility and transportation services necessary to perform and complete all the work required for aquatic herbicide treatments of Gun Lake in a workmanlike manner, all in accordance with the specifications at and for the following named prices:

ITEM	TARGET PLANT	QUANTITY	UNIT PRICE	UNIT	TOTAL
2,4-D Ester (150 lbs/acre)	Eurasian Milfoil	20 Acres	\$ 561.60	per Acre	\$ 11,232.00
2,4-D Amine (180 lbs/acre)	Eurasian Milfoil	20 Acres	\$ 483.60	per Acre	\$ 9,672.00
Triclopyr Granular (180 lbs/acre)	Eurasian Milfoil	60 Acres	\$ 629.20	per Acre	\$ 37,752.00
Triclopyr Liquid (3 gal/acre)	Eurasian Milfoil	30 Acres	\$ 254.80	per Acre	\$ 7,644.00
ProcellaCOR	Eurasian Milfoil	50 PDUs	\$ 93.60	per PDU	\$ 4,680.00
Diquat Dibromide (1 gal/acre)	Eurasian Milfoil Curly-Leaf Pondweed	40 Acres	\$ 145.60	per Acre	\$ 5,824.00
Diquat Dibromide (2 gal/acre)	Nuisance Natives	40 Acres	\$ 171.60	per Acre	\$ 6,864.00
Flumioxazin (200 ppb)	Eurasian Milfoil Starry Stonewort	40 Acres	\$ 12.00	per Acre	\$ 12,480.00
Flumioxazin (100 ppb) & Diquat Dibromide	Nuisance Natives	40 Acres	\$ 286.00	per Acre	\$ 11,440.00
Peroxyhydrate-Sodium Carbonate (100lbs/acre)	Filamentous or Planktonic Algae	40 Acres	\$ 36.40	per Acre	\$ 1,456.00
Peroxyhydrate-Sodium Carbonate (150lbs/acre)	Filamentous or Planktonic Algae	40 Acres	\$ 41.60	per Acre	\$ 1,664.00
Peroxyhydrate-Sodium Carbonate (2000lbs/acre)	Filamentous or Planktonic Algae	40 Acres	\$ 83.20	per Acre	\$ 3,328.00
Komeen Crystal (40 lbs/acre)	Starry Stonewort	40 Acres	\$ 639.60	per Acre	\$ 25,584.00
Harpoon Granular (200 lbs/acre)	Starry Stonewort	40 Acres	\$ 546.00	per Acre	\$ 21,840.00
Chelated Copper Herbicide (9 gal/acre)	Wild celery	40 Acres	\$ 338.00	per Acre	\$ 13,520.00
Water Lily Control	Water lilies	4 Sections of 1,600 sq. ft.	\$ 52.00	per Section	\$ 208.00
Sum Total: One hundred eighty-nine thousand five hundred forty dollars Dollars					\$ 189,540.00

Payment in 2025 will be made based on the bid unit price. Payments beyond 2025 will be made based on the bid unit price, plus two percent (2%) of the bid unit price per year. Annual contract extensions are contingent upon the discretion of the Board.

The undersigned, by execution of this document, certifies that he/she is the representative of the firm named as the bidder and that he/she is authorized to execute this bid on behalf of the said firm.

SIGNATURE: Cory A. Fye

NAME: Cory Fye
(Printed)

TITLE: Senior Director

COMPANY NAME: SOLitude Lake Management, LLC

COMPANY ADDRESS: 12315 Cleveland Street

Suite E

Nunica, MI 49448

TELEPHONE: (888) 480-5253

FAX: _____

E-MAIL lucas.britton@solitudelake.com

DATE: 05/07/2024

Bidder Résumé

The bidder is required to provide the following information to demonstrate prior experience with similar work to that described on Gun Lake.

Bidder: SOLitude Lake Management, LLC (Company Name)

A. Please provide a list of applicators employed by your company and their respective dates of certification by the Michigan Department of Agriculture.

B. In 2023, how many lakes in the various size categories listed below did you treat with herbicides?

- 100 to 500 Acres: 120 Lakes
- >500 Acres: 40 Lakes

C. Please list all the equipment to be utilized for the herbicide treatments at Gun Lake.

D. Please provide a maximum of three references of previous work. For each project, provide a contact person with phone number and include:

- Lake Name
- County
- Surface Acreage
- Treatment Area Acreage
- Target Plants
- Herbicides Applied

SIGNATURE: Cory A. Fye

DATE: 5/7/24

NAME: Cory Fye
(Printed)

TITLE: Senior Director