MEMORANDUM

TO: Brian C. Steed, Executive Director
FROM: Jamie Barnes, Interim Director Forestry, Fire and State Lands
DATE: July 7, 2021
SUBJECT: Utah Lake Harmful Algal Bloom Human Health Hazard Emergency Procurement

The Division of Forestry, Fire and State Lands has been given notice of a potential human health hazards by means of a harmful algal bloom at Lindon Marina on Utah Lake, located in Lindon, Utah. Lindon Marina has a large event planned for July 9, 2021 which will involve participants using the affected waters.

In order to prevent loss of income and/or recreational opportunity at Lindon Marina as well as protect human health at Utah Lake, the Division is looking into treatment at the site. The Division is working with the Division of Water Quality and the Division of Purchasing and General Services to post an emergency procurement which will allow for a contractor to treat the algae at the marina as soon as possible. The work for this treatment will be completed by July 9, 2021.
Indon Marina Emergency Treatment Estimate

Michael Swenson <MichaelS@atssmartsolutions.com>
x: Jamie Barnes <jamiebarnes@utah.gov>

Wed, Jun 23, 2021 at 11:15 PM

Jamie,

This feels a little loose since we aren’t replying to the normal RFP. Please forgive the informality.

Here are the numbers for what it would cost to treat the Lindon Marina for the next 60 days. We are able to modify this treatment plan to accommodate circumstances or conditions as they may change in the marina. Because we weren’t given an exact date or period of treatments we have provided the estimates out for 60 days. We would be able to treat on a week-to-week basis if needed. I’m happy to walk through the options with you. Additionally our estimate envisioned a multi-treatment contract would be awarded. This estimate could be used to estimate costs on a single treatment at a time. We would reserve the right to modify (reduce cost) some of the larger initial high dose treatments. Those are a part of a multi-week treatment plan. If we are bidding on single treatment at a time then we may choose to adjust (reduce the amount of product used) those higher dose cost estimates.

These treatments are a recommended weekly alternating regimen. Using copper sulfate pentahydrate and alternating peroxide based treatments. We believe this will provide the best efficacy for staying ahead of and preventing HAB in the marina. Our estimates are based on what we believe will be needed to initially treat the Marina and then maintain it. In addition to our experience treating water all over the world we have consumed many other experts on what would be effective in this exact marina. Additionally, the Lindon Marina was the area that ATS treated last year and we have some historical data and experience specific to they location. All of which has informed our choices and is reflected in our estimate.

We also factored in the need to be compliant with the federally regulated labels of these products as well as taking steps to ensure we could meet water quality standards throughout the entire treatment periods. The peroxide based treatment was chosen specifically to help ensure that water quality standards are met. It is highly effective, slightly more expensive than copper based products and has other benefits to reduce other pathogens from the water such as those that cause swimmers itch. We also believe that testing a new product that is more environmentally friendly works well in this scenario. There are a number of other similar copper or peroxide based products that could be used. We have explored many of them and believe we have selected 2 of the best. Both products have unique technologies that keep the product closer to the surface and have little to no negative impact on other aquatic life. We can target the cyanobacteria in the upper water column with these products, attain compliance with water quality standards, Comply with federally regulated labels, and have no negative impacts on other aquatic life.

Our estimate DOES INCLUDE the cost of sampling and testing the water 4 days after every treatment and providing that data to DWQ. We have consulted DWQ on the matter and we will remain in close communication and coordination with them through the entire process. In all circumstances we would welcome the opportunity to modify our plan as requested by FFSL or DWQ. We will help collect any needed, water samples, data, or explore other treatments or technologies to determine the best methods for treating HABs.

We also believe that there are a number of other technologies that we could bring to the table such as bubble curtains, physical algae screens/barriers, and other chemical treatments. These additional treatments may help us drive the costs down even further if they are effective. We didn’t have time to incorporate every option into a comprehensive plan for this estimate. We encouraged FFSL and DWQ to sit down with us to discuss what they hope to accomplish and let us advise and propose additional treatments that may be beneficial. We want to work collaboratively with the state to solve the HAB problem. We would bring a number of options to their attention for them to consider. We are largely agnostic about what product or technologies are used. Our goal is to simply find the solutions that will perform the best to achieve the desired outcome.

ATS has completed the necessary permitting required by DWQ for these treatments and paid associated fees. Our PDMP has also been completed and will be carried by our treatment applicators. We are able to begin work within 1 week (possibly less) of notifying us to begin work.
Making Life Safe

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ATS - Making Life Safe

Utah Lake Lindon Marina Emergency Treatment Plan Summer 2021.pdf
54K
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<th>Active Ingredient</th>
<th>Max Dosage* Allowed (per label)</th>
<th>Planned Dosage</th>
<th>Unit of Measure</th>
<th>Total Cost* (Planned Dose)</th>
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Total # of Treatments: 9

*For emergency increases in dosages, the cost per gal of Mainstream 635 is $14 and the cost per lb. of Lake Guard Oxy is $37.30. Services, sampling, testing costs are estimated to stay the same unless additional treatments are required.
E: Quote for Lindon Marina Treatment

message

Scott Shuler <scotts@eutrophix.com>
Reply-To: Jamie Barnes <jamiebarnes@utah.gov>
To: Ryan Van Goethem <ryanv@eutrophix.com>

Jaime,

Thank you for the opportunity to respond to this request. EutroPHIX™, A Division of SePRO Corporation® provides the following quotation, treatment protocol, and implementation criteria.

Project: Lindon Marina, Utah Lake – Harmful Algal Bloom Treatment

Price: $6,851.00 (includes application services, SeClear Algaecide and Water Quality Enhancer®, copper sample for water quality standard compliance)

Treatment Protocol: SeClear will be applied to the entire area within Lindon Marina at a rate of 0.25 ppm copper using a motorized application vessel and spray system to evenly disperse the algaecide within the treatment area. A water sample will be collected 3-4 days post-treatment for analysis of the copper concentration to ensure compliance with Utah State Water Quality Standards. We will complete this work under our existing NPDES General Pesticide Permit (see attached).

Terms: NET 30 DAYS (please provide billing and mailing information if we are awarded this work)

We could complete this treatment on Tuesday, June 22nd at approximately 1:00 PM Mountain Time (we could also treat on the morning of the 23rd but the afternoon of the 22nd is preferred).

Preferably we would receive notification by mid-day on Monday, June 21st.

Regards,

Scott Shuler
National Manager

Email: scotts@eutrophix.com
Office: 317-388-3316
Mobile: 317-703-9510
Web: http://eutrophix.com/

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The purpose of this email is obtain a quote for the Lindon Marina to be treated immediately due to a HAB occurring. The area to be treated is approximately 10 acres in size.

Please respond with the price for individual treatments, a treatment protocol and the soonest date the area could be treated.

Thank you

Jamie Barnes

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Jamie Barnes
Sovereign Lands Program Administrator
1534 West North Temple, Suite 3520
Salt Lake City, Utah 84114
Cell: 385.222.1536
Inline image

217-465 (002).pdf
68K
Sheena Henry-Samuel <shenry-samuel@utah.gov>  
To: Jamie Barnes <jamiebarnes@utah.gov>  

Wed, Jul 14, 2021 at 9:14 AM

Got it, thanks!
[Quoted text hidden]
Fwd: Your ATS Innova Order Has Been Processed
2 messages

Jamie Barnes <jamiebarnes@utah.gov>
To: Sheena Henry-Samuel <shenry-samuel@utah.gov>

Wed, Jul 14, 2021 at 9:12 AM

Here is the invoice I will get you the rest of the paperwork when I get back in

Jamie Barnes
Sovereign Lands Program Administrator
Division of Forestry, Fire and State Lands
Department of Natural Resources
1594 West North Temple
P.O. Box 145703
Salt Lake City, Utah 84114-5703
Phone: 385.222.1536
jamiebarnes@utah.gov

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-------- Forwarded message --------
From: Kirk Langston <kirk.langston@atssmartsolutions.com>
Date: Tue, Jul 13, 2021 at 4:29 PM
Subject: Your ATS Innova Order Has Been Processed
To: kirk.langston@atssmartsolutions.com, jamiebarnes@utah.gov
<jamiebarnes@utah.gov>
Cc: tyson.littlewood@atssmartsolutions.com, steve@alpinetech.us
<kirk.langston@alpinetech.us>, kaylas@ATSSmartSolutions.com
<kirk.langston@alpinetech.us>, kaylas@atssmartsolutions.com

Hi Jamie,

https://mail.google.com/mail/u/0?ik=43200769e4&view=pl&search=all&permthid=thread-f%3A170527352252254878701&simpt=msg-f%3A170527352252254878701&attid=0.1&attthid=0.1
Thank you for purchasing with us. Your ATS Innova order *(Order X-096836)* has been received and processed.

Here is the information for the order:

**Order #**  
X-096836

**Account Name:**  
Utah Division of Forestry, Fire and State Lands

**Account #:**  
A-1118195

**PO #:**  
FFSL; Emergency Lindon HAB Treatment

**Ship To:**

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Once your order has shipped, we'll send you another notification with your shipment's tracking information.

If you have any questions, please contact your ATS Innova Account Executive, Kirk Langston, for assistance at 801.877.1723 or email at kirk.langston@atssmartsolutions.com.

Thank you,

The ATS Innova Customer Success Team