July 6, 2020

New York State Department of Environmental Conservation
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, NY 12233-1750

New York State Department of Environmental Conservation
Bureau of Water Permits
625 Broadway, 4th Floor
Albany, NY 12233-3505

Re: City of Syracuse Department of Water
Application for SPDES Permit to Discharge a Pesticide Labeled for Aquatic Use.

To whom it may concern:

Enclosed please find the City of Syracuse Department of Water’s (the “City”) Application for State Pollution Discharge Elimination System (“SPDES”) Permit to Discharge a Pesticide Labeled for Aquatic Use (the “Application”). The City seeks approval to apply a product known as EarthTec within a portion of Skaneateles Lake (the “Lake”), as needed, to suppress the growth of cyanobacteria within the Lake, which serves as the City’s potable water supply.

The following materials are enclosed to assist the NYSDEC with its review and processing of the Application:

- SPDES Permit application form and supporting materials
  o Detailed maps (Section 4);
  o EarthTec pesticide label (Section 6);
  o a summary of the City’s monitoring plan (Section 8);
  o draft notice letter; and

Based on prior discussions with NYSDEC representatives, the City was advised that certification of notice to riparian owners pursuant to Section 9 of the Application was not required at this time. Instead, the City was requested to provide only the enclosed draft notice letter for review, with the understanding that if the Application
is approved and the application of EarthTec is planned, appropriate notice will be coordinated with NYSDEC at that time.

Additionally, in accordance with the requirements of the State Environmental Quality Review Act ("SEQRA"), the City wishes to assume the role of lead agency concerning the environmental review concerning the Application. We have enclosed a lead agency consent request letter for your review and execution.

Thank you for your attention to this matter. Please contact me if you have any questions or require further information.

Very truly yours,

Joe Awald, Commissioner

Enclosure
New York State Department of Environmental Conservation  
Division of Water – Bureau of Water Permits  
Application for State Pollution Discharge Elimination System (SPDES) Permit to Discharge a Pesticide Labeled for Aquatic Use

SUBMIT THE APPLICATION 3 MONTHS BEFORE THE PROPOSED TREATMENT  
REFER TO THE ATTACHED APPLICATION INSTRUCTIONS

### 1. PERMIT APPLICANT INFORMATION

| Name of Permit Applicant/Association/Agency: | City of Syracuse Department of Water |
| Name of Authorized Person signing the Application: | Rich Abbott |
| Mailing Address: | 20 West Genesee Street |
| City: | Skaneateles |
| State: | NY |
| Zip Code: | 13152 |
| Telephone Number: | 315 263-9254 |
| Email: | rabott@syrgov.net |
| Website: | syrgov.net |

### 2. PESTICIDE APPLICATOR INFORMATION

| Name of Pesticide Business/Agency performing application (if applicable): | TBD |
| Business/Agency Registration Number: | |
| Telephone Number: | |
| Contact: | |
| Business Address: | |
| City: | |
| State: | |
| Zip Code: | |
| Mailing Address: (if different than Business Address) | |
| City: | |
| State: | |
| Zip Code: | |
| Email: | |
| Website: | |
| Name of Certified Applicator(s) performing application: | TBD |
| Certified Applicator(s) Identification Number: | |
| Mailing Address: (if different than Business Address) | |
| City: | |
| State: | |
| Zip Code: | |
| Telephone Number: | |
3. WATER BODY INFORMATION

<table>
<thead>
<tr>
<th>Name of water body:</th>
<th>Skaneateles Lake</th>
<th>DEC water classification</th>
<th>A (e.g. Class A, Class B):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address or location of water body:</td>
<td>Finger Lakes Region</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County where water body is located:</td>
<td>Onondaga, Cayuga &amp; Cortland</td>
<td>Town where water body is located:</td>
<td>Skaneateles, Spafford, Niles, Sempronius, Scott</td>
</tr>
<tr>
<td>Are fish present?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Are fish stocked?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>If fish are present, see the Instructions for Section #3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are there any regulated freshwater or tidal wetlands associated with the proposed treated waters?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Do application sites include lands under the control of the DEC?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>If Yes, please specify: Skaneateles Lake (see attached map)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total water body size in acres:</td>
<td>8.704</td>
<td>Average depth in feet:</td>
<td>145</td>
</tr>
<tr>
<td>Water body uses (Check all that apply):</td>
<td>Swimming</td>
<td>Irrigation</td>
<td>Livestock watering</td>
</tr>
<tr>
<td>Other uses (list)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. A DETAILED MAP MUST BE INCLUDED WITH THIS APPLICATION

- The exact map scale size and average depths of the water body.
- The outline and average depths of the application site(s), with all streams/treated sites/catch basins clearly identified.
- Inlets and outlets to the water body. (if the applicant can’t control the outflow, also include the downstream watershed map information for Attachment D - Downstream Modeling)
- Location of known designated bathing sites, livestock watering sites, water intakes, public lands contiguous to the water body, public boat launches and any other features relevant to the application.
- Wetlands contiguous to the water body.

5. WATER BODY APPLICATION INFORMATION

| Whole or Partial Water Body Application: | |
| Total number of application sites: | 1 |
| Surface acres of each application site: | 568 |
| Total application area in surface acres: | 568 |
| Average depth of each application site: | 15 ft. |
| Total number of acre feet: | 8520 |
6. PESTICIDE APPLICATION INFORMATION

(A COMPLETE PESTICIDE LABEL MUST BE ATTACHED TO THE APPLICATION)

<table>
<thead>
<tr>
<th>Pesticide name:</th>
<th>EarthTec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pesticide active ingredient:</td>
<td>Copper Sulfate Pentahydrate (CAS no. 7758-99-8)</td>
</tr>
<tr>
<td>% Active Ingredient:</td>
<td>19.8%</td>
</tr>
<tr>
<td>Pesticide EPA Registration Number:</td>
<td>64962-1</td>
</tr>
<tr>
<td>Formulation:</td>
<td>Copper Sulfate Pentahydrate 19.8%, Inert Ingredients 80.2%</td>
</tr>
<tr>
<td>Application rate:</td>
<td>0.16 gals/acft - 1.0 gals/acft (e.g. gals/acre ft. or gals/surface acre)</td>
</tr>
<tr>
<td>Dosage rate:</td>
<td>0.03 ppm Cu - 1.18 ppm Cu</td>
</tr>
<tr>
<td>Total number of applications:</td>
<td>1 - 2</td>
</tr>
<tr>
<td>Approximate date(s) of application:</td>
<td>July - September 2020</td>
</tr>
<tr>
<td>Amount of pesticide needed per application:</td>
<td>up to 3,408 gallons (@ 1.0 gals/acft &amp; 6 ft. target depth)</td>
</tr>
<tr>
<td>Total amount of pesticide needed per calendar year:</td>
<td>up to 3,408 - 6,816 gallons / year</td>
</tr>
<tr>
<td>Target pest:</td>
<td>Cyanobacteria (Blue-green algae)</td>
</tr>
<tr>
<td>Method of application (e.g. sprayed on surface, bag dragged behind boat):</td>
<td>Subsurface Injection</td>
</tr>
<tr>
<td>If the proposed application involves an aircraft, indicate FAA Number(s):</td>
<td></td>
</tr>
</tbody>
</table>

7. WATER USE RESTRICTIONS

List all the applicable water use restrictions as stated on the label/SLN, in 6 NYCRR 327.6, or the applicable water quality standards.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swimming</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Irrigation</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Livestock watering</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Potable water uses</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Domestic water uses</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Fishing</td>
<td>No restrictions</td>
</tr>
<tr>
<td>Other</td>
<td>No restrictions</td>
</tr>
</tbody>
</table>

Two main factors that have been shown to affect toxin production are light and temperature (Cyanobacterial toxins: microcystin-LR in Drinking-water (World Health Organization 2003)).

Exposures to copper concentrations registered for use (i.e., 0.1 - 1.0 mg Cu L⁻¹ as Cutrine-Plus and Algimycin-PWF) did not influence microcystin-LR total degradation compared to untreated controls (Iwinski et al., 2017).

Microcystin concentrations in water are generally positively correlated with algal cell density (Chorus and Bartram, 2000; Zohary and Paris Madeira, 1990). Therefore allowing microcystin producing algae to grow unmanaged can result in increased total microcystin and consequently increased risk (Iwinski et al., 2015).

Cyanobacteria are often more sensitive to copper-based algicide exposures than non-target algae and aquatic animals (Calomeni et al., 2014; Geer et al., 2016), demonstrating a selective approach for mitigating risks from HABs in water resources.

Microcystin can be subject to biodegradation following algicide exposures, with half-lives on the order of days (Iwinski et al., 2017) providing a relatively rapid transformation pathway for decreases in microcystin concentration and potential risks (Kinley et al., 2017).

8. SUPPLEMENTAL DOCUMENTATION

Include information requested below with the application

<table>
<thead>
<tr>
<th>Monitoring Plan – Pre and Post Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>The procedures the applicant will follow prior to making the determination an application is needed, including:</td>
</tr>
<tr>
<td>a. whether confirmation of conditions requiring treatment will be based on monitoring data (and if so, details of the monitoring plan, including how and when initiated, sampling frequency and locations, etc.)</td>
</tr>
<tr>
<td>b. which metrics (qualitative and/or quantitative) are used to determine the need to treat (and the basis for the choice of that metric), including verification of cyanobacteria taxa, quantification of blooms, and toxins analyses;</td>
</tr>
<tr>
<td>c. how treatment area will be delineated based on conditions at the time of proposed treatment</td>
</tr>
<tr>
<td>d. post treatment monitoring (procedures/indicators) to evaluate potential public health or environmental risk and identify when regular lake/waterbody use is restored</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposed public outreach efforts that will be followed before and after an application, including</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Shorefront property owners engagement, through development and submittal of an EAF</td>
</tr>
<tr>
<td>b. Riparian notification of treatment, consistent with the requirements of the Bureau of Pest Management Application for a Permit to Use a Pesticide For the Control of an Aquatic Pest (form AQV(11/2016));</td>
</tr>
<tr>
<td>c. Notification of any testing results indicating issues related to public or environmental health, including cyanotoxin levels</td>
</tr>
</tbody>
</table>

9. CERTIFICATION OF NOTIFICATION OF RIPARIAN OWNERS AND USERS

The applicant must complete and sign the Certification of Notification of Riparian Owners and Users below. A copy of the notification letter and a list of riparian owners/users to whom the notification letter was sent must accompany this application. Check all appropriate statements:

All owners of real property abutting the body of water proposed to be treated pursuant to this application, a list of whom is attached to this application, have been notified by letter of the proposed pesticide permit. This list includes property owners abutting the outflow from this body of water, if the water is not to be held in the treated water body for the period of time during which use of water is restricted. Such letters were mailed or personally delivered on __/__/__. A copy of the letter is attached.

A review of the appropriate real property tax records indicates that no person other than the applicant owns any real property abutting the water body proposed to be treated.

A person(s), not owning abutting real property, possesses vested legal right to use the water body proposed to be treated. All such persons, and the nature of their right to use of the water proposed to be treated is attached. Such letters were mailed or personally delivered on __/__/__. A copy of the letter is attached.

To my knowledge, no person other than the applicant possesses any vested legal right to use the water body treated pursuant to this application.

Name: If Applicant is not an individual, include the title of signatory: Signature: Date:
10. AFFIRMATION:
The applicant/applicator guarantees that they will employ the listed pesticides in conformance with all conditions of the permit and agrees to accept the following conditions as a prerequisite to the issuance of a permit: that the issuance of the permit is based on the accuracy of all statements presented by the applicant/applicator; that damage resulting from the inaccuracy of any computations, improper application of the pesticide, or legal responsibility for the representations made in obtaining approvals or releases, or the failure to obtain approvals or releases from the riparian owners/users likely to be affected is the sole responsibility of the applicant/applicator.

I hereby affirm under penalty of perjury that information on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class “A” misdemeanor pursuant to Section 210.45 of the Penal Law.

<table>
<thead>
<tr>
<th>Signature of Permit Applicant or Representative:</th>
<th>Title</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Watershed Quality Coordinator</td>
<td>7/6/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signature of Certified Applicator:</th>
<th>Title</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ENVIRONMENTAL HAZARDS  Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated area. Certain water conditions including low pH (<6.5), low dissolved organic carbon levels (3.0 mg/L or lower) and soft waters (i.e. alkalinity <50 mg/L) increases the potential acute toxicity to non-target aquatic organisms. The application rates on this label are appropriate for water with alkalinity greater than 50 mg/L. Do not use these application rates for water with less than 50 ppm alkalinity (e.g. soft or acid waters) because trout and other species of fish may be killed under such conditions.

The EarthTec treatment area includes a 750 ft wide section extending from near-shore to open water within the North Basin of Skaneateles Lake. The total treatment area is 568 acres. The width of the North Basin ranges from approximately 2,500 ft. to 5,900 ft. The surface area of Skaneateles Lake 8,704 acres. Since the treatment area is approximately 1/15th of the lake surface area, fish can move readily to untreated areas. Dissolved oxygen levels will also not be negatively affected due to the ratio indicated above (Skaneateles Lake volume is estimated at 412 billion gallons). Skaneateles Lake water quality parameters include; pH 7.92 - 8.42 (daily avg. Aug. & Sept 2018) and alkalinity (100 mg/L), significantly above water conditions indicated on the EarthTec label. Hypolimnetic DO concentrations were relatively constant throughout the 2017 season ranging from 12.4 mg/L in May to 10.7 mg/L in September. Water Quality and Limnological Monitoring for the Skaneateles Lake: Field Year 2017, Upstate Freshwater Institute.
INSTRUCTIONS TO COMPLETE FORM SPDES Pesticide Indiv. App.

A State Pollutant Discharge Elimination System (SPDES) permit for a point source discharge of a pollutant to, in, or over the waters of the State of any New York State registered pesticide that is labeled for aquatic uses, including both biological and chemical pesticides that leave a residue, must be obtained in accordance with Section 402 of the Clean Water Act (CWA) for point source discharges to waters of the United States and the rules and regulations of the State of New York in Parts 750-1.4 of Title 6 New York Code of Rules and Regulations (6 NYCRR). The following numbered directions correspond to the numbered blocks on the “Application for a SPDES Permit to Discharge a Pesticide Labeled for Aquatic Use” form. Please read the instructions carefully and complete the application form accordingly.

Completed applications with all requested attachments must be submitted at least 3 months before the proposed pesticide application date to provide the DEC with sufficient time for application review. If all the information is not provided, or if the information is not correct, the application will be incomplete and returned to the applicant for correction. Application review may not begin until a signed, complete, original application has been received by the DEC. Additional copies may be needed as determined by DEC Regional offices.

It is the responsibility of the applicant to determine if any other permit is needed prior to making a pesticide application.

The applicant must notify the Regional DEC Pest Management staff 7-14 days prior to the actual pesticide application to the water body. For permits requiring water use restrictions, the Regional Pest Management staff must also be notified within 24 hours after the application (or the first business day following the application for Friday, weekend or holiday applications). In addition, the applicant must allow the Regional Pest Management staff access to the water body and the ability to observe the pesticide application. The applicant must also give notice of the proposed date to the appropriate Regional, State or County Department of Health 7-14 days prior to the application, where the water body or outflow waters serve as water supplies.

1. PERMIT APPLICANT INFORMATION

The name of the permit applicant proposing the application must be provided. The applicant is the person/entity:
   a. with control over the decision to perform pesticide applications authorized by the SPDES permit that results in a discharge to surface waters of the State; OR
   b. who performs the application of a pesticide authorized by the SPDES permit or who has day to day control of the application that results in a discharge to surface waters of the State.

If the application is being prepared for an organization, association or an agency, the applicant should be the organization/agency. If the entity is incorporated, please use the name registered with the NYS Division of Corporations. If the applicant is not an individual, please provide the name of the person authorized to submit the application for the organization. **NOTE:** The individuals signing the application must be the individuals identified on the application form. The application must be signed by an authorized individual, such as a riparian owner, an authorized representative of a lake association, or an authorized agency employee.

Check the appropriate block to identify whether the applicant is a riparian owner or lessee, or an organization, agency, or other entity.
2. PESTICIDE APPLICATOR INFORMATION

Please provide the certified applicator information as identified on the application. Attach a list of certified applicators, if necessary. If applicable, provide the name and address, registration number and website/e-mail information of the Pesticide Business/Agency conducting the pesticide application.

3. WATER BODY INFORMATION

If fish are present, list the related application requirements specified on the label and explain how you will comply with these requirements. Place the information in the Notes Section #11 of the permit application or attach documentation. Examples of these requirements, typically found in the Environmental Hazards portion of the pesticide label, include but are not limited to: determining water hardness, dissolved oxygen, pH, and/or alkalinity; and prohibitions when Koi or sensitive fish species are present.

Except in the Adirondack Park, where the Adirondack Park Agency (APA) administers the Freshwater Wetlands Act, under the ECL Article 24 Freshwater Wetlands Act and the ECL Article 25 Tidal Wetlands Act, the Division of Environmental Permits in DEC regulates activities, including pesticide applications, in freshwater and tidal wetlands, and in their adjacent areas. Contact the DEC Regional DEP staff or the APA if you have any questions about obtaining a wetlands permit.

The Environmental Resource Mapper, found at the Department website at: http://www.dec.ny.gov/animals/38801.html, is an interactive mapping application that can be used to identify some of New York State’s natural resources and environmental features that are state protected, or of conservation concern. Currently included on the maps are locations of:

- Freshwater wetlands regulated by the State of New York (outside the Adirondack Park). Contact the Adirondack Park Agency for wetlands within the Adirondack Park.
- New York’s streams, rivers, lakes, and ponds;
- Water quality classifications.
- Animals and plants that are rare in New York, including those listed as Endangered or Threatened (generalized locations).
- Significant natural communities, such as rare or high-quality forests, wetlands, and other habitat types.

Indicate if any of the application sites include lands under the control of the DEC. Such applications of pesticides require authorization from the DEC Division having jurisdiction. The permit will not be valid for such waters unless signed by the Director of the Division (or designee) in the area provided for this authorization.
4. DETAILED MAP

A copy of relevant portion of the 7 ½’ U.S.G.S. quadrangle map containing the water body or stream(s) proposed for application must be attached. In addition, an expanded scale drawing showing in detail, including but not limited to, the following features of the application sites (if necessary, more than one such drawing should be submitted).

- A detailed map of the water body, with outlines of the weed beds, and outlines of site(s) proposed for application, or a diagram of all streams/surface acreage/catch basins proposed to be treated. All sites to be treated must be clearly identified. Be sure to include map scale.
- Length of shoreline in proposed application site(s) in feet; or length of target stream(s) proposed for application in feet.
- Width of proposed application site(s) outward from the shore (in feet).
- Depth soundings in site(s) proposed for application and their location(s). Information must be sufficient to determine correct pesticide application dosage if calculation is based upon the volume of water to be treated.
- Inlet and outlet streams, and location of any outflow control devices.
- Names and locations of known public and private water supply intakes, livestock watering sites, bathing sites, public boat launches or public lands in vicinity of the application sites and on the outlet waters.
- Any NYSDEC regulated freshwater or tidal wetland.

5. WATER BODY APPLICATION INFORMATION

For this section, choose the type of application and provide totals for the entire proposed permitted project. More detailed information on individual application dates and application sites may be required on the map or for the next application section.

A. Whole or Partial Water Body Application – Separate the application sites when you are treating ½ the water body at a time even if you propose to treat the entire water body. Provide information for each application site, application date or dosage rate. Enter the totals for the entire proposed permitted project on the form but use the map or separate documentation to identify individual application sites, if necessary.

6. PESTICIDE APPLICATION INFORMATION

Provide the information for each separate pesticide product proposed for application. Only one pesticide product may be requested on each permit application. Each individual application site, date of application, including split and bump applications must be accounted for. Use separate documentation or the map if necessary.

Specify the proposed date(s) of application. These must be the dates contained in the notification notice sent to all riparian owners. If the proposed dates change for any reason, the riparian owner(s) must be re-notified of the date change.
7. WATER USE RESTRICTIONS

List all the water use restrictions as stated on the pesticide product label or accompanying Special Local Need (SLN) labeling.

Consult the DEC regulations in 6 NYCRR 327.6 for specific restrictions on Copper Sulfate, Diquat and 2,4-D on our website at: http://www.dec.ny.gov/regs/2491.html.

Information on the DEC Water Quality Standards in 6 NYCRR 703 may be found on our website at: http://www.dec.ny.gov/chemical/23853.html

The New York State Department of Health (DOH) maximum contaminant levels (MCL) for public water supplies, including the 50 ppb unspecified organic contaminant (UOC) standard, may be found in Tables on the DOH website at: http://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

8. SUPPLEMENTAL DOCUMENTATION

Complete the documentation/Information requests as described in this section and submit documentation with Application.

For Riparian Owner/User Notification, you must follow the instruction as provided in the Bureau of Pest Management Application For a Permit To Use A Pesticide For The Control of An Aquatic Pest (Form AQV(11/2016), as noted below:

An example of a notification letter, which is specific to only aquatic vegetation control, is attached at the end of this instruction sheet (Attachment A). This suggested letter contains the minimum wording necessary to satisfy riparian owner/user notification. You may add additional information. Certification that these written notices were provided must be completed in Section 11 of the AQV, Certification of Notification of Riparian Owners and Users.

Riparian owners are persons who own property along the shore of the proposed application sites. The ownership of the riparian property surrounding or bordering the waterbody proposed for application must be established, and if there is to be outflow during the restriction period along any outlet, this ownership must also be established.

Riparian users are those users of a waterbody who have a vested right to the use of the waterbody. Examples of such a vested right include a person with deeded access to the waterbody for recreational or other purposes, or a person who has a vested right to withdrawal and use of water from the waterbody.

If there is more than one riparian owner, or if there are one or more vested riparian users, these riparian owners/users must be notified in writing of the application and their right to object.

If there will be outflow of treated waters through lands owned by parties other than the sole waterbody riparian owner, they too must be notified.

Riparian owner/user notification must include:
- The date of the notice.
- Name of Applicant/Association and a contact phone number.
- The purpose of the proposed aquatic pesticide application.
- The pesticide(s) to be used. A copy of the pesticide product label (or the label with only the application directions not relevant to the proposed application deleted) must accompany the letter. According to ECL 33-0905.5, this information may be provided in either a written, digital or electronic form which shall be determined by the recipients.
• The anticipated water use restrictions.
• The date(s) of the proposed application. If application dates change from those stated in the notice or if dates are uncertain, a contact person and phone number with hours of availability must be provided.
• The fact that they may object to the application, how to file an objection, the location of the DEC Regional Office and the contact person where they may register their disapproval of the proposed application.
• The period of time, no more than 21 calendar days, to respond to the DEC if they do not consent to the proposed application.
• A statement that lack of comment will be considered agreement to the application.

By conditions imposed in the permit, the applicant may also be responsible for the posting of notification signs along shorelines, public access points, bathing sites, and swimming sites for notice of fishing, swimming and other restrictions as a result of the pesticide application. In addition, applicants may be required to mark or buoy the sites to be treated prior to application.

9. CERTIFICATION OF NOTIFICATION OF RIPARIAN OWNERS AND USERS

Check the appropriate blocks, and have the authorized individual sign and date. In cases where regulations or label directions require that treated water not be used for a stated period of time, the applicant must submit proof with the application that the water use restrictions can be enforced. The enforcement may occur by either securing consent from riparian owners/users or demonstrating that riparian owners/users will not be significantly adversely impacted.

10. AFFIRMATION

The application must be signed by an authorized individual, such as a riparian owner, an authorized representative of a lake association, or an authorized agency employee. NOTE: The individual signing the application must be the authorized person identified on the application form. Also include the individual’s title, if a representative of a lake association or employee of an agency, and the date of endorsement. The Certified Applicator who is actually associated with the pesticide application must sign the application.

MAIL THE COMPLETED APPLICATION AND ATTACHMENTS TO THE FOLLOWING:

1. New York State Department of Environmental Conservation
   Division of Environmental Permits
   625 Broadway, 4th Floor
   Albany, NY 12233-1750
   Phone: (518) 408-5476

2. New York State Department of Environmental Conservation
   Bureau of Water Permits
   625 Broadway, 4th Floor
   Albany, NY 12233-3505
   Phone: (518) 402-8111

Date of Notice: __________________________

Dear Riparian Property Owner/User:

To control the excessive growth of the aquatic plant species __________________________ (indicate plant species or algae) in __________________________ (name of water body), the __________________________ (name of applicant) proposes to conduct an application of the aquatic herbicide(s) __________________________ (product name).

A copy of the aquatic herbicide label(s) has been attached to this notice.

We anticipate the application to occur on ________________ (list all proposed dates) and will proceed only after __________________________ (applicant name) obtains a permit for the application from the DEC. Prior notification of the exact dates of application will be provided by __________________________ (posting of shoreline, mailing, door to door, etc.).

As an affected riparian owner/user, you have the right to consent or object to the restrictions of water use resulting from the proposed application. The water use restrictions associated with use of the above pesticides are checked below:

Swimming and bathing are prohibited for ________________
Fishing and/or fish consumption is prohibited for ________________
Livestock watering is prohibited for ________________
Irrigation or spraying of agricultural crops is prohibited for ________________
Use of potable water is prohibited for ________________
Use of water for domestic purposes is prohibited for ________________
Other __________________________ (Specify)

You have twenty-one (21) days to respond to this notice. If you would like to object to the proposed application(s), you must file a written document stating your objection to the proposed application. Your objection must demonstrate that your use of the water body will be significantly adversely affected.

If you do not respond to this notice, your lack of response will be considered to be consent to the proposed application. If you have any questions on the permitting process, please contact the DEC representative listed above.

Send your objections to the proposed pesticide application to the person listed below:

Name of Contact Person __________________________
NYS Department of Environmental Conservation (DEC) __________________________
Region __________________________
Address __________________________
Telephone Number __________________________

If you would like further information about the pesticide application, or information on the exact dates of the pesticide application, please contact the following person:

Name of Contact Person: __________________________
Telephone Number: __________________________
Hours Contact Person is Available: __________________________
8. SUPPLEMENTAL DOCUMENTATION

Monitoring Plan – Pre & Post Application

- **(a & b) Guidelines for the Application of EarthTec**
  The City of Syracuse Water Department (City) does not intend to utilize EarthTec as a reactionary measure to a lake-wide algal bloom. The objective is to decrease densities of microcystin producing cyanobacteria. Kinley et al. 2018 demonstrated the benefits of taking actions (utilizing copper-based algaecides) in early growth stages to minimize cyanobacteria densities and microcystin concentrations. Degradation of microcystin-LR occurred at environmentally relevant rates following copper algaecide exposures for mitigation of cyanobacteria blooms. Laboratory and field studies (Lwinski 2016; Lwinski et al. 2017) demonstrated copper algaecide exposures decreased rates of microcystin degradation only when copper concentrations were approx. 5 mg Cu L⁻¹, well in excess of legal application concentrations in the US of 1 mg Cu L⁻¹. In comparison, copper algaecide exposures of 0.1 through 2 mg Cu L⁻¹ resulted in similar degradation rates as untreated controls. Both studies provided evidence that the microcystin degradation is unlikely to be impacted by legal copper algaecide concentrations. The maximum concentration proposed for a Skaneateles Lake treatment is significantly below the lowest rate indicated above.

Triggers associated with initiating an EarthTec application by a City selected Commercial Pesticide Applicator (Category 5A – aquatic vegetation) is illustrated below. The primary factor in determining an application is two consecutive days of microcystin detection above 0.3 ug/L (top frame). Declining water quality conditions referenced within the bottom four frames (in advance, throughout, or proceeding the microcystin level threshold), will support initiating an application.

**Note:**
Pre-treatment monitoring sample quantities and locations will be subject to visual observations of water quality within the North Basin (near-shore and open water). Suspicious bloom reports will be investigated by Syracuse Water Dept. staff and samples collected (when warranted), for microscopic identification.
• (c) Proposed treatment area will not change from Detailed Map (Section 4)
  The proposed treatment area will not exceed that depicted on the map and could be significantly less, depending on visual observations and monitoring results.

(d) Post treatment monitoring will commence within 24 hours of treatment and include microcystin sampling and microscopic visual identification within and adjacent to the treatment area. Site specific areas include:
  o Skaneateles Country Club bathing area
  o Village of Skaneateles bathing area
  o Village of Skaneateles Pier
  o NYSDEC Boat Launch

  Microcystin samples will be collected daily at the above referenced sites until reported levels are <4 ug/L. In addition, continued scheduled monitoring and sampling will be performed in accordance with the Skaneateles Lake HAB Action Plan for Public Water Supplies (attached).

Proposed Public Outreach

2. (a) Shorefront Property Owners
  The City of Syracuse Water Department ("City") has completed and submitted an EAF. Prior to an EarthTec application the NYSDOH, NYSDEC, SLA and elected officials within the five townships in the Watershed will be notified by City personnel. The City continues to fund contractual relationships with Cornell Cooperative Extension of Onondaga County (CCE of Onondaga County) and the Onondaga County Soil and Water Conservation District (Onondaga SWCD). CCE of Onondaga County maintains and updates an electronic listserv which includes 50 local municipal leaders, and watershed residents. Through electronic and verbal communications, mailings and door-to-door handouts, Natural Resources Team Educators, Onondaga SWCD and City staff will notify lakefront residents and property owners prior to an EarthTec application. Public outreach and education will also be a coordinated effort between the City, CCE of Onondaga County, Onondaga County SWCD and the City’s selected aquatic pesticide applicator. CCE Onondaga will continue outreach to watershed residents, fire lane and lake associations, and property owners, to add to the existing listserv and expand the reach of the notification system.

2.(b) Riparian Notification of Treatment
  (attached find draft Letter of Notification)

2.(c) Notification of Testing Results
  Post treatment testing results including microcystin will be posted on the Skaneateles Lake Watershed website and Onondaga County Department of Health website
## Full Environmental Assessment Form
### Part 1 - Project and Setting

**Instructions for Completing Part 1**

**Part 1 is to be completed by the applicant or project sponsor.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

### A. Project and Applicant/Sponsor Information.

<table>
<thead>
<tr>
<th>Name of Action or Project:</th>
<th>EarthTec Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Location (describe, and attach a general location map):</td>
<td>North Basin of Skaneateles Lake</td>
</tr>
<tr>
<td>Brief Description of Proposed Action (include purpose or need):</td>
<td>Suppress cyanobacteria (blue-green algae) in Skaneateles Lake</td>
</tr>
<tr>
<td>Purpose or Need:</td>
<td>Treating the near-shore areas of Skaneateles Lake with EarthTec is designed to protect the City of Syracuse water supply (and public water supplies with Skaneateles Lake source). The primary objective is to keep cyanobacteria counts and microcystin collected by the City’s water intakes as low as possible. The highest levels of microcystin are typically found in areas where there are dense accumulations of cyanobacteria biomass (particularly when dominated by Microcystis) along the shorelines. High levels of microcystin are typically found under these conditions, and the microcystin is almost entirely bound within the cells. It is possible that at least a portion of these cyanobacteria are recruited from the relatively shallow sediments within the proposed treatment area. Surface shoreline accumulations are transported about the lake when the wind shifts, and drawn into the water intakes. Near shore treatments are designed to minimize the amount of cell bound microcystin from moving around the lake (and over the City’s water intakes) and to control blooms in their early stages, preventing large basin wide blooms from occurring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Applicant/Sponsor:</th>
<th>City of Syracuse Department of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone:</td>
<td>315 448-8366</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:rabbott@syrgov.net">rabbott@syrgov.net</a></td>
</tr>
<tr>
<td>Address:</td>
<td>20 West Genesee Street</td>
</tr>
<tr>
<td>City/PO:</td>
<td>Skaneateles</td>
</tr>
<tr>
<td>State:</td>
<td>NY</td>
</tr>
<tr>
<td>Zip Code:</td>
<td>13152</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Contact (if not same as sponsor; give name and title/role):</th>
<th>Rich Abbott</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone:</td>
<td>315 263-9254</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:rabbott@syrgov.net">rabbott@syrgov.net</a></td>
</tr>
<tr>
<td>Address:</td>
<td>20 West Genesee Street</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property Owner (if not same as sponsor):</th>
<th>New York State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone:</td>
<td></td>
</tr>
<tr>
<td>E-Mail:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City/PO:</td>
<td></td>
</tr>
<tr>
<td>State:</td>
<td></td>
</tr>
<tr>
<td>Zip Code:</td>
<td></td>
</tr>
</tbody>
</table>
### B. Government Approvals

#### B. Government Approvals, Funding, or Sponsorship.

("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

<table>
<thead>
<tr>
<th>Government Entity</th>
<th>If Yes: Identify Agency and Approval(s) Required</th>
<th>Application Date (Actual or projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. City Counsel, Town Board, or Village Board of Trustees</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>b. City, Town or Village Planning Board or Commission</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>c. City, Town or Village Zoning Board of Appeals</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>d. Other local agencies</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>e. County agencies</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>f. Regional agencies</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>g. State agencies</td>
<td>Yes/No</td>
<td>New York State Department of Environmental Conservation - SPDES Permit, March 11, 2020</td>
</tr>
<tr>
<td>h. Federal agencies</td>
<td>Yes/No</td>
<td></td>
</tr>
</tbody>
</table>

#### C. Planning and Zoning

#### C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed?

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

#### C.2. Adopted land use plans.

a. Do any municipally-adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)

If Yes, identify the plan(s):

```
Skaneateles Lake Watershed Watershed Rules & Regulations (10 CRR-NY 131.1 NY-CRR)
```

e. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan?

If Yes, identify the plan(s):

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C.3. Zoning

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Is the site of the proposed action located in a municipality with an</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>adopted zoning law or ordinance?</td>
<td>☐ No</td>
</tr>
<tr>
<td>If Yes, what is the zoning classification(s) including any applicable</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>overlay district?</td>
<td>☐ No</td>
</tr>
<tr>
<td>The proposed action will be limited entirely to a portion of Skaneateles</td>
<td></td>
</tr>
<tr>
<td>Lake, which is regulated by NYS</td>
<td></td>
</tr>
<tr>
<td>b. Is the use permitted or allowed by a special or conditional use permit?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>c. Is a zoning change requested as part of the proposed action?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>i. What is the proposed new zoning for the site?</td>
<td></td>
</tr>
<tr>
<td>C.4. Existing community services.</td>
<td></td>
</tr>
<tr>
<td>a. In what school district is the project site located?</td>
<td>Skaneateles School District</td>
</tr>
<tr>
<td>b. What police or other public protection forces serve the project site?</td>
<td>Skaneateles Police Department, Onondaga County Sheriff's Department</td>
</tr>
<tr>
<td>c. Which fire protection and emergency medical services serve the project</td>
<td>Skaneateles Fire Department, Skaneateles Ambulance Volunteer Emergency</td>
</tr>
<tr>
<td>site?</td>
<td>Services (SAVES)</td>
</tr>
<tr>
<td>d. What parks serve the project site?</td>
<td>Thayer Park &amp; Cliff Park (Village of Skaneateles)</td>
</tr>
</tbody>
</table>

D. Project Details

D.1. Proposed and Potential Development

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. What is the general nature of the proposed action (e.g., residential,</td>
<td>Municipal Drinking Water</td>
</tr>
<tr>
<td>industrial, commercial, recreational; if mixed, include all components)?</td>
<td></td>
</tr>
<tr>
<td>b. Total acreage of the site of the proposed action?</td>
<td>568 acres</td>
</tr>
<tr>
<td>b. Total acreage to be physically disturbed?</td>
<td>0 acres</td>
</tr>
<tr>
<td>c. Total acreage (project site and any contiguous properties) owned</td>
<td>0 acres</td>
</tr>
<tr>
<td>or controlled by the applicant or project sponsor?</td>
<td></td>
</tr>
<tr>
<td>c. Is the proposed action an expansion of an existing project or use?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>i. If Yes, what is the approximate percentage of the proposed expansion</td>
<td></td>
</tr>
<tr>
<td>and identify the units (e.g., acres, miles, housing units, square feet)?</td>
<td></td>
</tr>
<tr>
<td>Units:</td>
<td></td>
</tr>
<tr>
<td>d. Is the proposed action a subdivision, or does it include a subdivision?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>If Yes,</td>
<td></td>
</tr>
<tr>
<td>i. Purpose or type of subdivision? (e.g., residential, industrial,</td>
<td></td>
</tr>
<tr>
<td>commercial; if mixed, specify types)</td>
<td></td>
</tr>
<tr>
<td>ii. Is a cluster/conservation layout proposed?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>iii. Number of lots proposed?</td>
<td></td>
</tr>
<tr>
<td>iv. Minimum and maximum proposed lot sizes?</td>
<td></td>
</tr>
<tr>
<td>Minimum Maximum</td>
<td></td>
</tr>
<tr>
<td>e. Will the proposed action be constructed in multiple phases?</td>
<td>☐ Yes</td>
</tr>
<tr>
<td>i. If No, anticipated period of construction:</td>
<td>N/A months</td>
</tr>
<tr>
<td>ii. If Yes:</td>
<td></td>
</tr>
<tr>
<td>• Total number of phases anticipated</td>
<td></td>
</tr>
<tr>
<td>• Anticipated commencement date of phase 1 (including demolition)</td>
<td></td>
</tr>
<tr>
<td>month year</td>
<td></td>
</tr>
<tr>
<td>• Anticipated completion date of final phase</td>
<td></td>
</tr>
<tr>
<td>month year</td>
<td></td>
</tr>
<tr>
<td>• Generally describe connections or relationships among phases,</td>
<td></td>
</tr>
<tr>
<td>including any contingencies where progress of one phase may determine</td>
<td></td>
</tr>
<tr>
<td>timing or duration of future phases:</td>
<td></td>
</tr>
</tbody>
</table>
f. Does the project include new residential uses? [Yes/No]
   If Yes, show numbers of units proposed.

<table>
<thead>
<tr>
<th>One Family</th>
<th>Two Family</th>
<th>Three Family</th>
<th>Multiple Family (four or more)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At completion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>of all phases</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

g. Does the proposed action include new non-residential construction (including expansions)? [Yes/No]
If Yes,
   i. Total number of structures
   ii. Dimensions (in feet) of largest proposed structure: ______ height; ______ width; and ______ length
   iii. Approximate extent of building space to be heated or cooled: ______ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? [Yes/No]
If Yes,
   i. Purpose of the impoundment:
   ii. If a water impoundment, the principal source of the water: [Ground water, Surface water streams, Other specify]
   iii. If other than water, identify the type of impounded/contained liquids and their source.
   iv. Approximate size of the proposed impoundment. Volume: ______ million gallons; surface area: ______ acres
   v. Dimensions of the proposed dam or impounding structure: ______ height; ______ length
   vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? [Yes/No]
   (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
If Yes:
   i. What is the purpose of the excavation or dredging?
   ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
      • Volume (specify tons or cubic yards): ______
      • Over what duration of time?
   iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
   iv. Will there be onsite dewatering or processing of excavated materials? [Yes/No]
      If yes, describe.
   v. What is the total area to be dredged or excavated? ______ acres
   vi. What is the maximum area to be worked at any one time? ______ acres
   vii. What would be the maximum depth of excavation or dredging? ______ feet
   viii. Will the excavation require blasting? [Yes/No]
   ix. Summarize site reclamation goals and plan:

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? [Yes/No]
If Yes:
   i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description):
ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:
- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. bench clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>

c. Will the proposed action use, or create a new demand for water?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:

i. Total anticipated water usage/demand per day: _______________ gallons/day

ii. Will the proposed action obtain water from an existing public water supply?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:
- Name of district or service area:
- Does the existing public water supply have capacity to serve the proposal?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>
- Is the project site in the existing district?  
| Yes | No |
- Is expansion of the district needed?  
| Yes | No |
- Do existing lines serve the project site?  
| Yes | No |

iii. Will line extension within an existing district be necessary to supply the project?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:
- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:
- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _______________ gallons/minute.

d. Will the proposed action generate liquid wastes?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:

i. Total anticipated liquid waste generation per day: _______________ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):

iii. Will the proposed action use any existing public wastewater treatment facilities?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes:
- Name of wastewater treatment plant to be used:
- Name of district:
- Does the existing wastewater treatment plant have capacity to serve the project?  
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>
- Is the project site in the existing district?  
| Yes | No |
- Is expansion of the district needed?  
| Yes | No |
• Do existing sewer lines serve the project site? ☐ Yes ☐ No

• Will a line extension within an existing district be necessary to serve the project? ☐ Yes ☐ No

If Yes:
• Describe extensions or capacity expansions proposed to serve this project:

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐ Yes ☐ No

If Yes:
• Applicant/sponsor for new district:
• Date application submitted or anticipated:
• What is the receiving water for the wastewater discharge?

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste:

iv. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐ Yes ☐ No

If Yes:
• How much impervious surface will the project create in relation to total size of project parcel?
  _____ Square feet or _____ acres (impervious surface)
  _____ Square feet or _____ acres (parcel size)

• Describe types of new point sources.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

• If to surface waters, identify receiving water bodies or wetlands:

• Will stormwater runoff flow to adjacent properties? ☐ Yes ☐ No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐ Yes ☐ No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐ Yes ☐ No

If Yes, identify:
• Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

• Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

• Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

v. In addition to emissions as calculated in the application, the project will generate:

• _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
• _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
• _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
• _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
• _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
• _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

Page 6 of 13
h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? □ Yes □ No

<table>
<thead>
<tr>
<th>i. Estimate methane generation in tons/year (metric):</th>
</tr>
</thead>
</table>

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring):

---

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? □ Yes □ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

---

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? □ Yes □ No

<table>
<thead>
<tr>
<th>i. When is the peak traffic expected (Check all that apply):</th>
<th>□ Morning</th>
<th>□ Evening</th>
<th>□ Weekend</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Randomly between hours of ______ to ______</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks):

---

<table>
<thead>
<tr>
<th>i. Parking spaces:</th>
<th>Existing</th>
<th>Proposed</th>
<th>Net increase/decrease</th>
</tr>
</thead>
</table>

iv. Does the proposed action include any shared use parking? □ Yes □ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? □ Yes □ No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? □ Yes □ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? □ Yes □ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? □ Yes □ No

| i. Estimate annual electricity demand during operation of the proposed action: |

| ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): |

| iii. Will the proposed action require a new, or an upgrade, to an existing substation? |

---

l. Hours of operation. Answer all items which apply.

<table>
<thead>
<tr>
<th>i. During Construction:</th>
<th>Monday - Friday:</th>
<th>Saturday:</th>
<th>Sunday:</th>
<th>Holidays:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ii. During Operations:</th>
<th>Monday - Friday:</th>
<th>Saturday:</th>
<th>Sunday:</th>
<th>Holidays:</th>
</tr>
</thead>
</table>

---
m. **Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?**
   - **Yes** □ **No**
   - **If yes:**
     - **i.** Provide details including sources, time of day and duration:
       
     - **ii.** **Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?**
       - Yes □ No
       - **Describe:**

n. **Will the proposed action have outdoor lighting?**
   - **Yes** □ **No**
   - **If yes:**
     - **i.** Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:
       
     - **ii.** **Will the proposed action remove existing natural barriers that could act as a light barrier or screen?**
       - Yes □ No
       - **Describe:**

o. **Does the proposed action have the potential to produce odors for more than one hour per day?**
   - **Yes** □ **No**
   - **If Yes,** describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. **Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage?**
   - **Yes** □ **No**
   - **If Yes:**
     - **i.** Product(s) to be stored
     - **ii.** Volume(s) per unit time (e.g., month, year)
     - **iii.** Generally, describe the proposed storage facilities:

q. **Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation?**
   - **Yes** □ **No**
   - **If Yes:**
     - **i.** Describe proposed treatment(s):
       - EarthTec (algaecide) EPA Reg. No. 64962-1
     - **ii.** **Will the proposed action use Integrated Pest Management Practices?**
       - Yes □ No

r. **Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?**
   - **Yes** □ **No**
   - **If Yes:**
     - **i.** Describe any solid waste(s) to be generated during construction or operation of the facility:
       - **Construction:**
       - **Operation:**
     - **ii.** Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
       - **Construction:**
       - **Operation:**
     - **iii.** Proposed disposal methods/facilities for solid waste generated on-site:
       - **Construction:**
       - **Operation:**
s. Does the proposed action include construction or modification of a solid waste management facility? □ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities):

ii. Anticipated rate of disposal/processing:
   - _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
   - _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: ____________________ years

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
   i. Check all uses that occur on, adjoining and near the project site.
   - [ ] Urban  [ ] Industrial  ☒ Commercial  [ ] Residential (suburban)  ☒ Rural (non-farm)
   - ☒ Forest  ☒ Agriculture  ☒ Aquatic  [ ] Other (specify):

   ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

<table>
<thead>
<tr>
<th>Land use or Covertype</th>
<th>Current Acreage</th>
<th>Acreage After Project Completion</th>
<th>Change (Acres +/-)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roads, buildings, and other paved or impervious surfaces</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forested</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural (includes active orchards, field, greenhouse etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water features (lakes, ponds, streams, rivers, etc.)</td>
<td>568</td>
<td>568</td>
<td>0</td>
</tr>
<tr>
<td>Wetlands (freshwater or tidal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-vegetated (bare rock, earth or fill)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Describe:______________________________</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
c. Is the project site presently used by members of the community for public recreation? □ Yes □ No

i. If Yes: explain: Watercraft, fishing & swimming

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? □ Yes □ No

i. Identify Facilities:


e. Does the project site contain an existing dam? □ Yes □ No

i. Dimensions of the dam and impoundment:

- Dam height: 22 feet
- Dam length: 160 feet
- Surface area: .29 acres
- Volume impounded: 412 Billion gallons OR acre-feet

ii. Dam's existing hazard classification: Class C

iii. Provide date and summarize results of last inspection:

   May 16, 2019 Crest - repairs made to surface cracking, Upstream Slope - All observations are good, Downstream Slope - All observations are good, Outlet Works - Trash racks and erosion along dam toe need to be monitored

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? □ Yes □ No

i. Has the facility been formally closed? □ Yes □ No

   - If yes, cite sources/documentation:

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities:


g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? □ Yes □ No

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? □ Yes □ No

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:

   - Yes - Spills Incidents database □
   - Yes - Environmental Site Remediation database □
   - Neither database □

   Provide DEC ID number(s): 1806180

ii. If site has been subject of RCRA corrective activities, describe control measures:

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? □ Yes □ No

If yes, provide DEC ID number(s):

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):
v. Is the project site subject to an institutional control limiting property uses?  
   □ Yes □ No  
   • If yes, DEC site ID number:  
   • Describe the type of institutional control (e.g., deed restriction or easement):  
   • Describe any use limitations:  
   • Describe any engineering controls:  
   • Will the project affect the institutional or engineering controls in place?  
     □ Yes □ No  
     Explain:  

E.2. Natural Resources On or Near Project Site  

a. What is the average depth to bedrock on the project site?  
   N/A feet  

b. Are there bedrock outcroppings on the project site?  
   □ Yes □ No  
   If Yes, what proportion of the site is comprised of bedrock outcroppings?  
   %  

c. Predominant soil type(s) present on project site:  
   lake bottom sediments  
   100 %  
   %  
   %  

f. Approximate proportion of proposed action site with slopes:  
   □ 0-10%:  
   □ 10-15%:  
   □ 15% or greater:  

h. Surface water features.  
   i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  
      □ Yes □ No  
   ii. Do any wetlands or other waterbodies adjoin the project site?  
      □ Yes □ No  
      If Yes to either i or ii, continue. If No, skip to E.2.i.  
   iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?  
      □ Yes □ No  
   iv. For each identified regulated wetland and waterbody on the project site, provide the following information:  
      • Streams:  
      Name: 896-2, 896-3, 896-1.1  
      Classification AA, C(T)  
      • Lakes or Ponds:  
      • Wetlands:  
      Name: Federal Waters, Federal Waters, Federal Waters, ...  
      Classification  
      Approximate Size  

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?  
   □ Yes □ No  
   If yes, name of impaired water body/bodies and basis for listing as impaired:  
   Name - Pollutants - Uses:  
   Skaneateles Creek and tribs - Priority Organics - Fish Consumption  

i. Is the project site in a designated Floodway?  
   □ Yes □ No  

j. Is the project site in the 100-year Floodplain?  
   □ Yes □ No  

k. Is the project site in the 500-year Floodplain?  
   □ Yes □ No  

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?  
   □ Yes □ No  
   If Yes:  
   i. Name of aquifer:  
      Principal Aquifer  
      Note: while part of the Town of Scott on the south end of the lake is over a sole source aquifer,  
      the project area is not over or immediately adjoining that or any other aquifer.
m. Identify the predominant wildlife species that occupy or use the project site:
- Yellow Perch
- Smallmouth Bass
- Muskgrass (Chara sp.)

n. Does the project site contain a designated significant natural community?  □ Yes □ No
   If Yes:
   i. Describe the habitat/community (composition, function, and basis for designation):
      ____________________________________________________________
   ii. Source(s) of description or evaluation:
   iii. Extent of community/habitat:
      - Currently: __________________________ acres
      - Following completion of project as proposed: ______________________ acres
      - Gain or loss (indicate + or -): ___________________________ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? □ Yes □ No
   If Yes:
   i. Species and listing (endangered or threatened):
      ____________________________________________________________

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? □ Yes □ No
   If Yes:
   i. Species and listing:
      ____________________________________________________________

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? □ Yes □ No
   If yes, give a brief description of how the proposed action may affect that use:
   ____________________________________________________________

EarthTec (2EE - Reduced Rate For Algae) Details: Toxicity Statement: Aquatic Invertebrates, Fish

E.3. Designated Public Resources On or Near Project Site
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? □ Yes □ No
   If Yes, provide county plus district name/number:
   ____________________________________________________________

b. Are agricultural lands consisting of highly productive soils present? □ Yes □ No
   If Yes: acreage(s) on project site?
   ____________________________________________________________
   ii. Source(s) of soil rating(s):
   ____________________________________________________________

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? □ Yes □ No
   If Yes:
   i. Nature of the natural landmark: □ Biological Community □ Geological Feature
   ii. Provide brief description of landmark, including values behind designation and approximate size/extent:
      ____________________________________________________________

D. Is the project site located in or does it adjoin a state listed Critical Environmental Area? □ Yes □ No
   If Yes:
   i. CEA name:
   ii. Basis for designation:
   iii. Designating agency and date:
      ____________________________________________________________
e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?  
Yes ☑ No ☐

If Yes:
1. Nature of historic/archaeological resource: ☑ Archaeological Site ☐ Historic Building or District
2. Name: Eligible property: SHERWOOD INN, Eligible property: Syracuse Water Department Gate House, Eligible property: Main Residence...
3. Brief description of attributes on which listing is based:
   Land-based facilities

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?  
Yes ☑ No ☐

g. Have additional archaeological or historic site(s) or resources been identified on the project site?  
Yes ☑ No ☐

If Yes:
1. Describe possible resource(s):
2. Basis for identification:

h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?  
Yes ☑ No ☐

If Yes:
1. Identify resource:
2. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.):
3. Distance between project and resource: ___________ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?  
Yes ☑ No ☐

If Yes:
1. Identify the name of the river and its designation:
2. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?  
Yes ☑ No ☐

F. Additional Information
Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification
I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name: City of Syracuse - Department of Water  
Date: 3/18/2020

Signature: ____________________________  
Title: Watershed Quality Coordinator
**Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.i.i [Coastal or Waterfront Area]</td>
<td>No</td>
</tr>
<tr>
<td>B.i.ii [Local Waterfront Revitalization Area]</td>
<td>No</td>
</tr>
<tr>
<td>C.2.b. [Special Planning District]</td>
<td>Digital mapping data are not available or are incomplete. Refer to EAF Workbook.</td>
</tr>
<tr>
<td>E.1.h [DEC Spills or Remediation Site - Potential Contamination History]</td>
<td>Digital mapping data are not available or are incomplete. Refer to EAF Workbook.</td>
</tr>
<tr>
<td>E.1.h.i [DEC Spills or Remediation Site - Listed]</td>
<td>Digital mapping data are not available or are incomplete. Refer to EAF Workbook.</td>
</tr>
<tr>
<td>E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]</td>
<td>Digital mapping data are not available or are incomplete. Refer to EAF Workbook.</td>
</tr>
<tr>
<td>E.1.h.iii [Within 2,000' of DEC Remediation Site]</td>
<td>No</td>
</tr>
<tr>
<td>E.2.g [Unique Geologic Features]</td>
<td>Yes</td>
</tr>
<tr>
<td>E.2.g [Unique Geologic Features]</td>
<td>Skaneateles Lake - North</td>
</tr>
<tr>
<td>E.2.h.i [Surface Water Features]</td>
<td>Yes</td>
</tr>
<tr>
<td>E.2.h.ii [Surface Water Features]</td>
<td>Yes</td>
</tr>
<tr>
<td>E.2.h.iii [Surface Water Features]</td>
<td>Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.</td>
</tr>
<tr>
<td>E.2.h.iv [Surface Water Features - Stream Name]</td>
<td>896-2, 896-3, 896-1.1</td>
</tr>
<tr>
<td>E.2.h.iv [Surface Water Features - Stream Classification]</td>
<td>AA, C(T)</td>
</tr>
<tr>
<td>E.2.h.iv [Surface Water Features - Wetlands Name]</td>
<td>Federal Waters</td>
</tr>
<tr>
<td>E.2.h.v [Impaired Water Bodies]</td>
<td>Yes</td>
</tr>
<tr>
<td>E.2.h.v [Impaired Water Bodies - Name and Basis for Listing]</td>
<td>Name - Pollutants - Uses: Skaneateles Creek and trib - Priority Organics - Fish Consumption</td>
</tr>
</tbody>
</table>
E.2.i. [Floodway] No
E.2.j. [100 Year Floodplain] Yes
E.2.k. [500 Year Floodplain] No
E.2.l. [Aquifers] Yes
E.2.m. [Aquifer Names] Principal Aquifer
E.2.n. [Natural Communities] No
E.2.o. [Endangered or Threatened Species] No
E.2.p. [Rare Plants or Animals] No
E.3.a. [Agricultural District] No
E.3.c. [National Natural Landmark] No
E.3.d [Critical Environmental Area] No
E.3.e. [National or State Register of Historic Places or State Eligible Sites] Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name] Eligible property: SHERWOOD INN. Eligible property: Syracuse Water Department Gate House, Eligible property: Main Residence House, Eligible property: Weber Residence, 3 West Lake Street, Village of Skaneateles, Onondaga County. Eligible property: 61 West Lake Street, Brook Farm, Smith, Reuel E., House, Skaneateles Historic District, Shepard Family Houses
E.3.f. [Archeological Sites] Yes
E.3.i. [Designated River Corridor] No
FIFRA Section 2(ee) Product Bulletin
Recommendation Technical Information

EarthTec – Use of Reduced Rates for Control of Algae, Nonpublic Health Bacteria, and Bacteria That Cause Odor Problems in the State of New York

EPA Reg. Number: 64962-1

This recommendation is made as permitted under FIFRA section 2(ee) and has not been submitted to or approved by the federal EPA.

Pesticide applicator certification and a permit from the New York State Department of Environmental Conservation may be required for sale, possession, or use. Contact the Pesticide Control Specialist at your NYSDEC regional office prior to the proposed application for specific conditions or exemptions.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty on the EPA registered label are to be followed. Refer to the container label for additional instructions. Always read and follow label directions. Information contained in this Technical Information Bulletin is not intended to replace or amend any product labeling. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. For use in controlling algae and cyanobacteria at all aquatic application sites do not exceed a copper concentration in water of 1.0 ppm of metallic copper concentration (background + applied).

The user must have this recommendation in their possession at the time of use.

Directions for Use – Open Waters

Apply a dose no more than 3 parts per million EarthTec (i.e., 3 gallons of EarthTec per million gallons of water treated, equivalent to 1 gallon of EarthTec per acre-foot), yielding a concentration of 0.18 mg/L (ppm) as metallic copper. Supplemental applications are permissible as long as no more than a cumulative total of 0.18 mg/L as copper is applied in any given 14-day period.

<table>
<thead>
<tr>
<th>Dose (ppm by volume)</th>
<th>gals/MG*</th>
<th>gals/ac-ft</th>
<th>Cu²⁺ (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>0.5</td>
<td>0.15</td>
<td>0.030</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>0.3</td>
<td>0.060</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>0.7</td>
<td>0.120</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>1.0</td>
<td>0.180</td>
</tr>
</tbody>
</table>

*MG = million gallons

Directions for Use – Infrastructure and Flowing Waters

For protection of pipelines and other infrastructure by addition to flowing waters, use a metering pump to deliver a dose equivalent to 0.5 to 3.0 ul/L of product, equivalent to 0.03 to 0.18 mg/L as copper.
For Impounded Waters, Lakes, Ponds, Reservoirs, Livestock Watering Systems, Potable Water Supplies+, Sedimentation Basins and Ornamental Water Features or Fountains; and Equipment/Structures that deliver water directly to publicly owned water treatment facilities to include pipes, intake structures, gatehouses, screens, pumping stations, weirs, and penstocks.
For Irrigation Conveyance Systems, Irrigation Reservoirs, Irrigation Canals and Ditches.
Bactericide* - Nonpublic Health Bacteria
Potable Water Supplies+ - Water Destined to Be Used as Drinking Water (this water must receive additional and separate potable water treatment)

ACTIVE INGREDIENT
Copper Sulfate Pentahydrate*(CAS No. 7758-99-8) ...........................................19.8%
OTHER INGREDIENTS................................................................................80.2%
Total .............................................................................................................80.2%
*Metallic Copper ....................................................................................5%

This product weighs 9.91 lb. per gallon - 1.188 kg/L
And contains 0.493 lbs elemental copper per gallon

Manufactured by: Earth Science Laboratories, Inc.
113 SE 22nd Street, Suite 1
Bentonville, AR 72712
Phone: (800) 257-9283

EPA REGISTRATION NO. 64962-1
EPA ESTABLISHMENT NO. 64962-NE-001

WARNING • AVISO
If you do not understand this label, find someone to explain it to you in detail.
(Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.)

F I R S T A I D
IF IN EYES: Hold eye open and rinse slowly and gently with water for 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15 to 20 minutes. Call a poison control center or doctor for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC 1-800-535-5053 for emergency medical treatment.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON THE SIDE OR BACK PANEL.

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

WARNING
Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses), long sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any waterproof material. Some materials that are chemical-resistant to this product are polyethylene, polypropylene and vinyl. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 14 days between treatments. Begin treatment along the shore and proceed outward in bands to rouse fish to move into untreated areas. Consult with the state or local agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is required.

Certain water conditions including low pH (<4.5), low dissolved organic carbon (DOC) levels (<1.0 mg/L or lower) and "soft" waters (i.e. alkalinity less than 50 mg/L) increase the potential acute toxicity to non-target aquatic organisms. The application rates on this label are appropriate for water with alkalinity greater than 50 mg/L. Do not use these application rates for water with less than 50 ppm alkalinity (e.g., soft or acid waters) because trout and other species of fish may be killed under such conditions.

Consult your local state fish and game agency before applying this product to public waters. Permits may be required before treating such waters.

For applications in waters destined for use as drinking water, these waters must receive additional and separate potable water treatment. Do not apply more than 1.0 gpm as metallic copper in these waters (background + applied copper).

PERSONAL PROTECTIVE EQUIPMENT
USER SAFETY REQUIREMENTS
Mixers, loaders, applicators and other handlers must wear the following:
- Long-sleeved shirt
- Chemical-resistant gloves made of any waterproof material (Chemical Resistance Category A)
- Long pants
- Protective eyewear
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove PPE immediately if splash or garments gets inside. Then wash thoroughly and put on clean clothing.
- Users should not remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.
- Wash the outside of gloves before removing.

Always refer to the label on the product before using EarthTec or any other product.
**USE CONTROL OF ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS**

For algae control, apply in the late spring or early summer when algae first appear. The doses are variable and depend upon algae species, water hardness, water temperature, amount of algae present as well as whether water is clear, turbid, or having higher doses.

- **For algae control:**
  - In order to attain 1.0 ppm or metallic copper in the treated water, the amount of Earth Tec added to a water body is equal to the gallons or water being treated divided by the gallons of water. This will yield a dose of 1.5 ppm metallic copper (see Example Calculation table below).
  - For algae control, use 1 tsp of Earth Tec per 1,000 gallons of water, or 1 gallon of Earth Tec per 60,000 gallons of water, that will yield a rate of 0.06 ppm metallic copper. See Example Calculation table below for continuous flow rates. The lenses are clean, use the prescribed dose described above.

**APPLICATION AND HANDLING EQUIPMENT**

Applications, handling or storage equipment must consist of fiberglass, PVC, polypropylene, stainless steel or other corrosion resistant plastics. Never use mild steel, nylon, brass or copper around Earth Tec. Always rinse and clean equipment thoroughly each night with plenty of fresh, clear water.

**PESTICIDE STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**CONTAINER HANDLING**

TANKER TRUCKS: Emptied container retains vapor and product residue. Observe all regulations stated on this label before the product is reconditioned or destroyed. Recondition may involve safely disposing of residue on the product thus reducing the risk of exposure.

**IMPORTANT BEFORE USING**

**LIMITED WARRANTY AND LIMITATION OF REMEDIES**

Red the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. Terms of sale are not acceptable, the unpurchased product container at once. By using this product, user or buyer accepts the following conditions, disclaimers of warranties and limitations of liability.

The Directions for Use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unexpected outcomes may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Earth Sciences Laboratories, Inc. to the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not be liable for more than the cost of this product to the buyer and will be in no event liable for any consequential, special or indirect damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied. Seller makes no warranty for which product has been found.

Always refer to the label on the product before using Earth Tec or any other product.
Date: ______________

LETTER OF NOTIFICATION

Re: Proposed Treatment For Harmful Algal Blooms – Skaneateles Lake

The City of Syracuse has received approval from NYSDEC to apply the algacide EarthTec® (active ingredient: Copper Sulfate Pentahydrate) on _____, 2020 to control potentially harmful algal blooms in the north basin of the lake. The Program will be conducted by certified personnel with the firm SOLITUDE LAKE MANAGEMENT, Business Registration No.16505.

The roads and fire lanes along the lakeshore and public / private access points will be posted at the time of the treatment indicating applicable water use restrictions.

The following water use restrictions are currently applicable for your property for the duration of the treatment PLUS the timeframes indicated in the table below.

<table>
<thead>
<tr>
<th>Product</th>
<th>Swimming</th>
<th>Fish Consumption</th>
<th>Animal Consumption</th>
<th>Drinking, culinary or food processing purposes</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>EarthTec</td>
<td>No Restriction</td>
<td>No Restriction</td>
<td>No Restriction</td>
<td>No Restriction</td>
<td>No Restriction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Impact From Cyanobacteria Toxins Released</th>
</tr>
</thead>
<tbody>
<tr>
<td>EarthTec</td>
<td>No Impact</td>
</tr>
</tbody>
</table>

The product label is attached hereto and is also available for review on SOLitude Lake Management’s website at http://www.solitudelakemanagement.com/product-regulation-labels.

If you wish further information about the proposed management program or need hard copies of the product label, please contact Rich Abbott (315-263-9254) or SOLitude Lake Management (908-310-8775) between 9:00 am and 4:00 pm, Mon - Fri.

GROWTH. DIVERSITY. OPPORTUNITY FOR ALL.
Map for SPDES Permit for Pesticide Application to Skaneateles Lake

Proposed Application Area:
750' From Shoreline
36,850' Approximate Shoreline Length