

WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
LAKE PROTECTION GRANT PROGRAM

**Application Materials**

***Three Lakes Chain Management  
Planning Project – Phases V & VI  
Little Fork, Medicine, Round, Island, & Townline Lakes***

*Prepared for the*

**Three Lakes Waterfront Association**

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*Lake Management Planning*

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## **INTRODUCTION AND PROBLEM IDENTIFICATION**

The Three Lakes Chain (upper part of the Eagle River Chain of Lakes, Map 1) is a flowage covering over 6,100 acres. Since its inception, the Three Lakes Waterfront Association, along with its long-time partner, the Town of Three Lakes, has worked to prevent introduction and establishment of aquatic invasive species (AIS) within this highly valued waterbody. It has approached this sometimes overwhelming task through diligent volunteer monitoring of the chain's littoral zone (Adopt-A-Shoreline - AAS) and an annual educational initiative that includes direct contact with lake stakeholders through multiple avenues, such as conducting annual meetings with educational speakers, staffing informational booths and manning the chain's many landings with Clean Boats Clean Waters (CBCW) watercraft inspectors. The association also educates stakeholders through more passive activities, like direct mailings, newsletters and signage at boat landings.

Along with preventing AIS establishment within the chain, it has been the long-term objective of the Three Lakes Waterfront Association (TLWA) to create comprehensive management plans for the 21 lakes within the Three Lakes Chain. The plans are proposed to be completed in blocks of 3 to 6 lakes, starting at the southern end (top) of the chain and working north towards Long Lake and the Eagle River above the Burnt Rollways Dam over nine to ten phases (years). Developing management plans for small clusters of lakes within the chain would allow for financial savings to be realized in project costs while creating a manageable project that would allow for sufficient attention to be applied to each lake's needs. This is opposed to completing all plans simultaneously, which would facilitate great cost savings, but only produce generic plans for each lake and the chain as a whole.

This grant application comprises two major project scopes; the first describing the continued management planning efforts and the second outlining the association's AIS prevention and education activities scheduled for 2013. Onterra created the planning project design, while the TLWA created the prevention and education components.

## **PLANNING PROJECT SCOPE OF WORK**

The TLWA has elected to work from the upper southern end of the chain to the lower northern end for two reasons:

1. By starting at the top of the chain, water quality information collected as a part of upstream lakes would be useable during the watershed modeling of downstream lakes. This would lead to more accurate modeling on a chain-wide basis.
2. Long Lake and the Eagle River channel above the Burnt Rollways Dam have completed a management planning process in December 2012. The need for updating that plan would likely coincide with the timing of the phased-project proposed here.

During the summer of 2006, a pioneer occurrence of Eurasian water milfoil (EWM) was located approximately 0.25 mi. upstream from the Burnt Rollways Dam, Oneida County, WI. As a result of that finding, the Wisconsin Department of Natural Resources (WDNR) issued an AIS Early Detection and Rapid Response Grant to the Town of Three Lakes. Due to the success of the 2009 treatments, no treatment was required during 2010. During late summer 2011 surveys

by Onterra staff, only several EWM plants were observed. These plants were spatially identified using GPS technology and were then manually removed with a rake. Because of this source population of Eurasian water milfoil to the rest of the Three Lakes Chain, Long Lake (608 acres), was strategically targeted first in management studies. In December 2012, the WDNR approved a management plan for Long Lake which included goals of continued water quality monitoring, shoreland zone and fisheries enhancement, as well as continuing aggressive AIS monitoring.

The Phase I project, which received funding during the February 2010 grant cycle, encompassed the furthest upstream lakes including Big (865 acres), Whitefish (205 acres), and Virgin Lakes (276 acres). The waterbody known locally as the “Thoroughfare” (198 acres) was also included within the project’s aquatic plant, stakeholder survey and shoreland zone studies. All fieldwork included within the project was completed in 2010.

The Phase II project was funded during the February 2011 grant cycle, and included Laurel Lake (249 acres), Big Stone Lake (607 acres), Dog Lake (202 acres), Crystal Lake (116 acres) and Deer Lake (188 acres). These studies concluded in February 2012 with winter water quality sampling. A draft management plan for the Phase I and II lakes was approved by a TLWA planning committee and sent to the WDNR in December 2012 for review. This draft included study results and management goals and actions for the entire Three Lakes Chain as well as each individual lake that had been studied in 2010 and 2011.

In addition to comprehensive studies on five lakes, the Phase II grant provided funds for two additional components: continued monitoring of EWM within Virgin Lake and a chain-wide anonymous stakeholder survey. The Virgin Lake EWM population was discovered by Onterra staff during summer of 2010, and consisted of a single colony spanning 20 feet in diameter. Onterra staff completed additional meander surveys during 2011 on the lake, as well as making two trips to the known infestation area to hand remove plants using snorkeling equipment. 2012 saw continued monitoring of the colony. In July of 2012, Onterra staff visited the lake to 1) conduct a whole-lake search for EWM and 2) closely investigate the known EWM population utilizing SCUBA surveys. Upon entering the water, they quickly realized that the EWM colony had increased in size, but also in density as many small plants not visible from the surface existed. An aggressive, mid-summer 2,4-D herbicide treatment was approved by the TLWA and WDNR and conducted in mid-July in hopes of reducing the auto-fragmentation and spread of EWM from this source population. Funding to support further Virgin Lake monitoring and potential treatments is being sought after through an AIS Early Detection and Response (EDR) grant.

As previously mentioned, the Phase II project also included funding for an anonymous written stakeholder survey, which was distributed to riparian property owners and TLWA members. Prior to sending out the survey, Onterra staff worked with the TLWA planning committee to create a survey which solicited questions regarding many aspects of the Three Lakes Chain, including questions on property use, perceived water quality, fishing quality, aquatic plant issues, safety and navigability issues, TLWA involvement and management, and more. This survey was approved by a WDNR social scientist and was then distributed to Three Lakes Chain stakeholders in October of 2011. The data was analyzed by Onterra staff and presented at the TLWA annual meeting in July of 2012 by TLWA board members.

Phase III of the chain-wide project was funded through a February 2012 Lake Management Planning Grant, and included Fourmile (210 acres) and Big Fork (663 acres) Lakes. All open water field studies were completed on these lakes in summer of 2012, with additional water quality samples collected in February of 2013. At the time of this writing, data analyses are being conducted by Onterra staff with reporting of results and stakeholder engagement to follow.

In April of 2013, Phase IV of the project was funded through a Lake Management Planning Grant to conduct studies on Moccasin (95 acres), Spirit (368 acres) and Maple Lakes (131 acres). Field work on these lakes will be completed in summer of 2013 and winter of 2014, with planning and stakeholder engagement occurring in summer of 2014. Additionally, field work concerning another component, coarse woody habitat surveys on Phase I through Phase IV lakes is to be completed within this project phase.

The proposed project here is the first time in which the planning efforts in the Three Lakes Chain are being sought after within the Lake Protection grant category. With its larger cap, this grant would be able to cover costs associated with Phase V and Phase VI lakes (Table 1), which represents two years of scientific studies (2014 & 2015) and management plan development as well as three years of AIS educational efforts (2014-2016). As in the past, these educational initiatives are to be directed by the TLWA and their partner the Town of Three Lakes.

**Table 1. Morphological and point-intercept survey specifics for Phase V and Phase VI project lakes.**

<b>Waterbody</b>	<b>Year of Field Studies</b>	<b>Acres</b>	<b>Point Spacing (Resolution)</b>	<b>Total Points</b>
Little Fork Lake	Phase V - 2014	336	45	685
Medicine Lake	Phase V - 2014	396	43	862
Round Lake	Phase VI - 2015	151	48	268
Island Lake	Phase VI - 2015	305	50	498
Townline Creek	Phase VI - 2015	14	N/A	N/A
Townline Lake	Phase VI - 2015	142	48	262

The Three Lakes Chain is a highly sought after location amongst recreationists and anglers. In addition to the 14 public boat landings on the chain, there is access to the eight boat landings on the Lower Eagle River Chain by traveling over the Burnt Rollways Dam using the tracked boat-lift system. This exceeds maximum access as defined in NR 1.91(5b), by having more than 167 car-trailer parking locations for lakes between 5,000 and 8,350 acres. The system contains numerous resorts, many which contain their own private boat landing. In addition, numerous fishing tournaments are held on the system each year.

As described above the Three Lakes Chain receives intense public use opportunities which most likely contributed to Long Lake and the downstream Eagle River as well as Virgin Lake becoming infested with EWM. The proposed project would be beneficial to the remaining lakes within the Three Lakes Chain, which, with the exception of Virgin Lake and the Long Lake channel, are not known to contain this exotic species. The proposed project would further educate stakeholders about EWM and other AIS; and, along with the Clean Boats Clean Waters program, help reduce new infestations to the chain and reduce the risk of EWM from the chain

infecting other area waterbodies. Traditionally, the TLWA's partner in lake protection, the Town of Three Lakes, has supported these efforts by contributing 10% of the lake management planning costs. In 2014, it is anticipated that the town will contribute 5% towards the total proposed project cost in order to further support the TLWA's lake protection and education endeavors.

The TLWA would like to complete the planning program for three main reasons: 1) to learn the extent of the exotic plants which occur in the system, 2) to understand their lake ecosystem more fully, and 3) to be eligible to receive additional WDNR grant funds to address AIS and other goals of lake stakeholders. The data collected from the surveys outlined in this project will serve as a baseline set of data from which future management planning projects can call upon. Therefore, this project is important not only in the management and protection of the chain, but also in its potential restoration. Specifically, the completed management plan would outline the specific steps necessary to restore important native habitat within and around the project lakes.

## **PROJECT GOALS**

The scope of work below outlines a project and study design that looks at the project lakes from more of an ecosystem perspective than managing their plants alone. The scope describes assessments of each lake's plants, watershed, and water quality. It also describes the integration of available fisheries information, past aquatic plant and water quality assessments, and an intensive stakeholder participation component. The study components would provide the baseline data required to assess the chain's condition, while the stakeholder participation portion would shed light on the expectations and needs of the lake users. The combination of these components and communications with WDNR specialists would allow a long-term and implementable plan to be created for the project lakes and the chain, in general.

The work required to develop the plan would rely on partnerships between the WDNR, the TLWA, Oneida County, the Town of Three Lakes, and other local municipalities as applicable.

Overall, the work outlined in the following phase scopes would provide the TLWA with the following information:

- The drainage area definition (watershed) for the lakes.
- The potential point-sources of pollution that may be affecting the lakes.
- The areas of the lake's watershed that may be supplying excessive amounts of sediment and nutrients.
- A determination of plant community diversity for the lakes and how the lake's diversity compares with other lakes in the region.
- An identification and location of important plant communities (emergent, submergent, floating-leaf) within the lakes and a listing of the dominant species within those communities.
- The identification and location of any rare or threatened plant species within the lakes.
- A determination of where exotic plant species (e.g., Eurasian water milfoil, curly-leaf pondweed, purple loosestrife) occur in and around the lakes.

- Of the plant species found in the lakes, their abundances relative to each other.
- A summary and analysis of specific chemicals found in the lakes, how these concentrations compare with other lakes in the region, and what these concentrations indicate concerning the health of the lakes.
- An analysis of the limiting plant nutrient (phosphorus or nitrogen) in the lakes.
- The trophic state (e.g., oligotrophic, mesotrophic, eutrophic) of the lakes.
- Aquatic plant management alternatives.
- A summary of recent historic fisheries data, biological information relating to specific fish species, and how it applies to the management plan.
- A listing of management options that may be utilized to protect and enhance the important and sensitive areas of the lakes.
- The steps that could be taken to help improve the lake, such as work in the watershed (e.g., agricultural best management practices), shoreland restoration opportunities, in-lake native plant introductions, etc.
- The funding sources available to assist in the implementation of the pertinent management and protection options that are outlined in the lake management plan.
- An assessment of the shoreline condition and knowledge of the extent of coarse woody fish habitat on the lakes.

## PROJECT SCOPE

The numerous tasks and activities involved with this important undertaking are described below. The scope is separated into two sections, the first outlining the tasks involved with completing the management plans, and the second describing the educational and prevention activities that would be facilitated by the TLWA.

## Stakeholder Participation & Education

Education is a very important element in any environmental planning exercise. It is important not only from the perspective of informing participants and stakeholders about the project, but also from the standpoint of enhancing their understanding of natural ecosystems and their value to a healthy environment. If participants do not understand the value of the natural ecosystem, they will not strive to protect or enhance it.

Onterra's planning process is aimed at developing a realistic management plan that not only meets the needs of the ecosystem in question, but also those of the people that use and care for the lake (stakeholders). In order to complete such a plan, Onterra strives to engage the stakeholders in the development of the plan as much as possible. This is facilitated through numerous meetings, project updates, a stakeholder survey, and through the use of a *Planning Committee*. The Planning Committee is made of up stakeholders from around the lake. Normally a committee consists of 4 to 12 people depending on the size of the lake they represent. For this project in particular, each Phase V and Phase VI project lake would have approximately

4-6 members on the committee. The Planning Committee should not be overloaded with board members as this may lead to the impression that the board is developing the management plan, which would be unhealthy for the process. The committee should not be overloaded with married couples since this actually reduces the individualism sought in a functional committee. Ultimately, the committee should be made up of a cross-section of lake stakeholders of different ages, interests, location on the lake, and ideas concerning lake management.

### **Project Update Meeting**

A meeting would be held between Onterra staff and the TLWA to provide an update on the Chain-wide management planning project. Currently, such a meeting is scheduled for summer of 2013 and is covered through the April 2013 Lake Management Planning Grant. At this meeting, general results from Phases I, II, III and IV studies would be discussed. Specific issues, such as EWM monitoring and treatments in Virgin Lake and the Eagle River Channel above Burnt Rollways Dam would be addressed as well. The next project update meeting, covered through this proposed grant, would be held in summer of 2015 to bring the TLWA up to speed on studies conducted on the Phase V and VI lakes.

### **Written Project Updates**

Each fall, a written project update would be provided to the TLWA with the intention of summarizing that summer's field studies and outlining the next steps in the lake management process. This update would be formatted in numerous ways to allow the TLWA the flexibility of posting the text within a newsletter, newspaper, website, etc.

### **Stakeholder Survey**

Comments and opinions were solicited from all Three Lakes Chain stakeholders (less those included in the Long Lake project) in Phase II of this project through a stakeholder survey. This information will be incorporated into the management plans for the Phase V and Phase VI lakes as well as the rest of the Three Lakes Chain lakes as their plans are written.

### **Planning Meeting**

Following the completion of the data collection and analysis, two meetings would be held in order to present the project's results and preliminary recommendations to the TLWA Planning Committee and to complete a prioritized implementation plan. Please note that the first meeting would be face-to-face, while the second meeting would be conducted via teleconference. These would be very important meetings because they would facilitate the combination of the technical aspects of the project and the prioritized goals of the lake stakeholders. The result of this combination would be the *Lake Management Plan* for Phase V and Phase VI lakes.

The first meeting (face-to-face) would be conducted with all Planning Committee members of the project lakes. To recap: Phase V lakes (studied in 2014) would hold this meeting in 2015 and Phase VI lakes (studied in 2015) would hold this meeting in 2016. The primary focus of this meeting would be a presentation by Onterra staff describing the planning process and the results of the studies completed on the lakes. Onterra's conclusions and applicable recommendations would also be presented. All questions pertaining to the results, conclusions, and recommendations would be answered and discussed as needed.

Management challenges, goals, and actions as they apply commonly to each project lakes would also be discussed during the first meeting. This discussion would not include lake specific management topics, but instead, those topics which apply to all of the lakes.

The second meeting would be lake-specific and conducted via teleconference using Onterra's toll-free conference system. In other words, a second Planning Committee meeting would be held with each lake-specific Planning Committee. During this meeting, topics particular to the respective lake would be discussed.

As a result of these two meetings, a general implementation plan would be completed for the Phase V and Phase VI project lakes along with more lake-specific plans for the individual lakes. Onterra would facilitate both meetings by making the necessary contacts and by supplying result summaries in the form of hardcopy maps and narratives along with projected presentations.

### ***Wrap-up Meeting***

At the conclusion of the project, Onterra would facilitate a *Wrap-up* meeting to present the findings and recommendations of the study and corresponding management plan to the TLWA. The presentation would be in an easy-to-follow format that would explain the study results and the reasons as to why certain alternatives were selected for inclusion within the plan. It would also allow stakeholders to express concerns and ask specific questions about the project lakes and the Three Lakes ecosystem in general.

### ***Additional Public Information Forums***

In addition to the meetings described above, Onterra would also promote public awareness of the project by supplying a progress report for the TLWA's newsletter approximately halfway through the study. Onterra requests the TLWA submit press releases to the local newspapers describing the project and announcing the general membership meetings.

### ***Watershed Assessment Review***

The first step in this component would be an accurate delineation of each of the chain lakes' watershed. This was completed for the entire Three Lakes Chain in Phase II of this study. GIS software was used to generate a map of existing land cover types located within the watershed.

As mentioned earlier, the above process was completed on a chain-wide basis as a part of this project (Phase II). However, further work involving modeling and upstream lake contributions would not be completed until the respective lake is included in a phase of the overall project. All Phase V and Phase VI project lakes would have their watershed assessment completed as a part of this project. Within this proposed project, field visits have been accounted for which would ground-truth the watershed boundaries that were delineated in Phase II. These ground-truthing visits stem from conversations had between Onterra and TLWA individuals who questioned the watershed boundaries, particularly in areas where cranberry marshes exist and flow may be altered.

For the next step in modeling the watershed and its characteristics (land cover), the acreage of land currently attributed to each cover type would then be input into the Wisconsin Lake Model



Suite (WiLMS) and a partitioning of watershed phosphorus loading, based on land cover type would be calculated. The sources of phosphorus loading for the watershed would also be graphically displayed using GIS software. Watershed modeling would be calibrated through actual values obtained from each project lake through water quality sampling (discussed below).

If needed, the annual internal phosphorus loading would be modeled for each lake through the Wisconsin Internal Load Estimator (WINTLOAD). This model utilizes temperature and dissolved oxygen profiles along with seasonal phosphorus concentrations to estimate the extent of internal phosphorus loading – a major source of the annual phosphorus load in some lakes.

Using WiLMS, a response model would be created by altering the land cover types found within the Phase V and Phase VI project lakes' watersheds to indicate different scenarios (e.g. agriculture lands converted to forests). This exercise would be useful in prioritizing conservation work conducted in the watershed and would lead to realistic goals for water quality preservation and possible improvement. These goals would be expressed using Trophic State Index values for each lake.

This component is useful in accomplishing two goals; 1) to help target specific areas for improvement within the system's watershed, while estimating the extent of internal nutrient loading, and 2) to bring a better understanding to the lake stakeholders concerning how each lake's watershed plays a key role in its water quality regardless if problems exist or not within the watershed.

## Lake Water Quality

Water quality conditions would be monitored within the Phase V and Phase VI project lakes in order to complete the following:

- Assist in identifying potential water quality problems within the project lakes, such as elevated nutrient levels, anaerobic conditions, etc.
- Determine the trophic state of the lake using the Trophic State Index (TSI).
  - Historic data would also be used to calculate TSI values for long-term trend analysis. This analysis would be useful in determining realistic target values for maintaining or improving the lake's water quality through watershed or in-lake management actions.
- Determine the limiting nutrient.
- Supplement and calibrate watershed assessment modeling.

At this time, TLWA members currently collect data as a part of the Citizens Lake Monitoring Network (CLMN) on some, but not all, of the Phase V and Phase VI project lakes. Their efforts are to be commended, and should also be continued. Water quality would be monitored in this project by Onterra staff to ensure similar parameters are collected, timing is comparable, and that sampling is done in a matter that facilitates calibration of watershed modeling (discussed above). Water quality would be monitored at the deepest point in each Phase V and Phase VI project lake. Samples would be collected at subsurface (S) and near bottom (B) depths and would occur once in spring, winter and fall, and three times during the summer. All samples requiring laboratory analysis would be processed through the Wisconsin State Laboratory of Hygiene. The

parameters to be measured and sample collection timing are contained in Table 2. Secchi disk transparency would also be included during each visit along with temperature and dissolved oxygen profiles.

**Table 2. Water Quality Sample Parameters and Timing**

Parameter	Spring		June		July		August		Fall		Winter	
	S	B	S	B	S	B	S	B	S	B	S	B
Total Phosphorus	●	●	●	●	●	●	●	●	●	●	●	●
Dissolved Phosphorus	●	●			●	●					●	●
Chlorophyll <u>a</u>	●		●		●		●		●			
Total Kjeldahl Nitrogen	●	●			●	●					●	●
Nitrate-Nitrite Nitrogen	●	●			●	●					●	●
Ammonia Nitrogen	●	●			●	●					●	●
Laboratory Conductivity	●	●			●	●						
Laboratory pH	●	●			●	●						
Total Alkalinity	●	●			●	●						
Total Suspended Solids	●	●	●	●	●	●	●	●	●	●	●	●
Calcium	●											

### Shoreland Condition and Course Woody Habitat Assessment

Using a GPS data collector with sub-meter accuracy, the immediate shoreline of the Phase V and Phase VI project lakes would be surveyed and classified based upon its potential to negatively impact the system. Specifically, the shoreline of each lake would be categorized on a 5-point scale ranging from *Urbanized* to *Natural/Undeveloped*. Examples of negative qualities include shoreland areas that are maintained in an unnatural manner and impervious surfaces. The map created would assist in the prioritization of areas for protection and restoration that would likely have a benefit to the Three Lakes Chain ecosystem.

As a part of the shoreline assessment survey, all incidences of coarse woody debris would be mapped as well. This type of structure is important habitat for fish and other aquatic organisms; therefore, this information would be useful in determining whether the lake management plan should include the enhancement of woody structure in the lake.

### Aquatic Plant Surveys

Aquatic plants are very important because they are the foundation of the lake ecosystem; therefore a complete and accurate assessment of the aquatic plant community is vital in every lake management project. In order to fully assess the aquatic plants, three different types of surveys would be performed on each lake: an early season AIS survey, a comprehensive survey, and an aquatic plant community mapping survey. The curly-leaf pondweed survey is aimed at locating this exotic early in the growing season before it dies back by midsummer. The comprehensive survey is a plot-based inventory intending to characterize the relative frequency of all plants, native and exotic, and is performed at the height of the growing season. The aquatic plant community mapping survey is completed following the comprehensive survey and provides a *snapshot* of the lake’s emergent and floating-leaf communities.

Overall, this task would serve to provide an accurate characterization of each lake’s macrophyte community. It would indicate what species were present and where they were located, and allow for comparisons with past and future surveys. It would also help to determine where and what types of aquatic plant control, protection, and enhancement methods would be appropriate for the respective lake.

### **Early Season AIS Survey**

Curly-leaf pondweed has a very unusual life cycle compared to our native plants and is at peak biomass within Wisconsin lakes during late spring/early summer. Further, Eurasian water milfoil, which begins growing much earlier than most Wisconsin native plants, is often easily spotted from the surface during early summer as it towers above other lake plants. Therefore, an inventory would be conducted on the lake during the early summer to map curly-leaf pondweed and Eurasian water milfoil occurrences within the lake. Please note that this would not be a transect- or plot-based survey, but instead, would consist of a meander survey of the lake to locate these species. If curly-leaf pondweed is found, the colonies would be mapped utilizing the submeter-accuracy GPS technology. A map depicting each colony’s location and density (through color-gradients) would be created based upon the data collected in June. Curly-leaf pondweed was discovered in the Long Lake channel by the WDNR during the August 2006 point-intercept survey. However, it was not located during numerous lake visits by Onterra staff in 2009 - 2012. If Eurasian water milfoil is mapped on the Phase V and Phase VI project lakes during this survey, these sites would re-assessed and the plants remapped later in the summer when Eurasian water milfoil is most likely at its peak biomass.

### **Comprehensive Survey**

#### **Point-intercept Survey**

A comprehensive survey of aquatic macrophytes is used to characterize the existing plant species within the lake and includes inventories of emergent, submergent, and floating-leaved aquatic plants within each lake. The point-intercept method as described in Recommended Baseline Monitoring of Aquatic Plants in Wisconsin: Sampling Design, Field and Laboratory Procedures, Data Entry, and Analysis, and Applications (WDNR PUB-SS-1068 2010) would be used to complete these surveys. Table 1 above contains specific information regarding the point-intercept survey of each lake based on guidance from the WDNR.

The data collected would be analyzed by Onterra and used in the development of the management plan. To characterize spatial distribution, *relative frequency of occurrence* would be calculated for each species found within each lake. In addition, the plant communities of each lake would be compared to those of other lakes in the ecoregion and the state using the Floristic Quality Assessment (FQA) procedures described in Nichols (1998). In general, the FQA evaluates the species found in a lake with those found in a natural, undisturbed system; indicating the health of the current plant community in the lake.

Point-intercept surveys were conducted on Long Lake during 2006 and 2009. The latest survey identified 43 species contributing to an extremely high 44.2 Floristic Quality Index. Vasey’s pondweed was also discovered within the lake during the surveys. This plant is listed as a species of special concern in Wisconsin; although its populations are secure globally, they are “imperiled” in Wisconsin because of rarity. Vasey’s pondweed was also located during the 2010

surveys completed on Virgin Lake, the 2011 surveys completed on the Big Stone and Laurel Lakes and 2012 surveys completed on Big Fork Lake. Yellow pond lily (*Nuphar microphylla*) was found in Fourmile Lake in 2012. This species, though secure globally, is noted to be quite rare in certain areas of its range. Indeed, this plant has been termed by WDNR scientists as the rarest *Nuphar* species within the state of Wisconsin (S. Knight, personal communication).

### **Native and Exotic Plant Community Mapping**

The aquatic vegetation community types within each lake (e.g., emergent, submergent, and floating-leaved vegetation) would be mapped using the GPS technology described above, and would be based on dominant species (e.g., soft-stem bulrush, common arrowhead, large-leaf pondweed, etc.). In other words, the primary mapping unit would be the community type, but a secondary classification based on dominant species would be included on the vegetation maps. The final map would show the location of each vegetation type in each lake in relation to the lake's bathymetry. It is these communities that respond the quickest to ecological changes in a lake and the survey would provide a baseline understanding of the relative locations of these communities.

Furthermore, additional maps would indicate the areas of the lake inhabited by exotic/invasive species such as Eurasian water milfoil (*Myriophyllum spicatum*), pale yellow iris (*Iris pseudacorus*), giant reed grass (*Phragmites australis*) or purple loosestrife (*Lythrum salicaria*), if these species are found within or around the Phase V and Phase VI project lakes. During surveys conducted on Phase I-IV lakes, purple loosestrife and pale yellow iris have been found and mapped on several Three Lakes Chain lakes.

Representatives of all plant species located during the point-intercept and community mapping surveys would be collected and prepared for vouchering by the University of Wisconsin – Steven's Point Herbarium. A set of samples would also be provided to the TLWA.

### **Additional AIS-Related Surveys and Reporting**

Previous phases of this chain-wide project were funded through grants obtained through the WDNR's Lake Management Planning Program; these were applied for on an annual basis. The benefit of this procedure was that the TLWA, Town of Three Lakes, and Onterra were able to adapt to issues that were uncovered during each phase. For example, it was discovered within 2010 that EWM existed on Virgin Lake. During the next grant cycle (February 2011), additional funds were included in the grant which allowed the TLWA to fund monitoring and hand-harvesting of EWM within Virgin Lake that next summer. In a sense, this flexibility has been lost through application of the Lake Protection grant category, which is a multi-phase and several year project. In order for the TLWA to be prepared for necessary action (monitoring, hand-removal, plan development, etc.) of AIS that may be found in the Phase V and Phase VI lakes, AIS survey funds are included within this proposed project. Should these funds prove to be unnecessary and not used, the project would not be billed for them.

## **Fisheries Data Integration**

### **Summary of Baseline Data**

Available historic fisheries data within the past decade from the WDNR and other applicable resources would be compiled for the Phase V and Phase VI project lakes. This would include information relating to fish stocking, creel surveys, and comprehensive fish surveys. A list of the known fish species present in each lake along with general biological information pertaining to important fish species would be provided considering spawning habitat requirements, nursery areas, and food sources.

### **Integration within Management Plan**

Although current fish data would not be collected, the compiled historic data from the Phase V and Phase VI project lakes along with the natural history information would be considered as it pertains to the management plan. Fish habitat data collected from the coarse woody habitat survey and point-intercept survey (substrate type) would be discussed within this section and in terms of habitat enhancement goals at the conclusion of the project. As applicable, individual management actions within the Implementation Plan would be analyzed as they pertain to the health of the fish populations (e.g. timing of Eurasian water milfoil control practices to limit interference with spawning activities).

### **Professional *Dreissena* Mussel Monitoring**

The WDNR samples over 100 waterbodies annually in search of larval and adult zebra and quagga mussels (both *Dreissena* sp.). Following discussions with the WDNR during the spring of 2006, Onterra purchased the necessary equipment and was trained by WDNR staff to sample lakes in search of these mussels. During two lake visits, the water column would be sampled at three sites using a 64-micron mesh plankton net in search of larval mussels (veligers). Mussel Monitoring would be completed once in June during the curly-leaf pondweed survey and again in July or August during the community mapping survey. Samples would be preserved and packaged according to the methodology outlined in the 2005 WDNR publication, “*Dreissena* Mussel Monitoring Protocol.” Because ethyl alcohol is used in the preservation process, specific rules apply for shipment and arrangements have been made to hand-deliver samples to WDNR staff at the Northeast Region Headquarters in Green Bay where they would be responsible for shipment to the location of analysis. During these and other visits to each lake, Onterra would periodically search docks, piers, and other structures for adult forms of the mussels.

## **PROJECT DELIVERABLES**

The final product for this project would be a single report that would include the methodologies and results of the tasks described above, as well as discussion concerning those results as they apply to the current health, rehabilitation, and protection of the Phase V and Phase VI project lakes. Full-color maps described in the Project Scope would also be included. Management, protection, enhancement alternatives and recommendations would be presented along with continued public education issues. Furthermore, recommendations for remedial actions and further study options (if needed) would be included expressly for each lake and its drainage basin, including possible funding sources.

Unless specifically indicated otherwise, the TLWA would be responsible for providing the necessary deliverables for those components listed within the Stakeholder Participation Section. The deliverables for these activities may include entering the appropriate information within the WDNR’s Surface Water Integrated Monitoring System (SWIMS) or providing a brief narrative of the activities to the WDNR.

Upon finalization of the report and acceptance by the WDNR, six hard copies would be provided to the TLWA. In addition, the TLWA and WDNR would receive two and one copies, respectively, of the report, data, and maps on CD-ROM in Adobe’s Portable Document Format (PDF).

## TENTATIVE PROJECT SCHEDULE

Table 3 provides an approximate timeline for completion of the tasks. The schedule needs to be flexible to accommodate for weather, scheduling conflicts, etc., but it provides a general indication of the dates for completing the proposed components. The meeting times would be very flexible and rely on availability of TLWA members, data supplied by outside sources, and progress made on preceding tasks.

**Table 3. Approximate Project Schedule for 2014 – 2016.**

<b>Task</b>	<b>Timeframe</b>
Water Quality Sampling	Spring, June, July, August, Fall, Winter 2014-2016
Early-Season AIS Surveys	June 2014 & 2015
Point-Intercept/Community Mapping Surveys	July/August 2014 & 2015
Project Update Meeting	Summer 2015
Shoreland Condition/CWH Assessments	Fall 2014 & 2015
Written Project Updates	Fall 2014 & 2015
Data Analysis	Fall/Winter Following Data Collection
Planning Committee Meetings	Summer Following Data Collection
Phase Report – First Draft	Fall/Winter Following Planning Meetings

## **AIS EDUCATION PROJECT GOALS AND OBJECTIVES**

As discussed previously, the AIS Education project will compliment the lake management planning project in many ways. Educating lake users, both local full-time or part-time residents and transient visitors to the Three Lakes Chain of Lakes, is a crucial step in reducing the chance of AIS spread between waterbodies. Additionally, involving stakeholders in management activities helps to build friendships, partnerships and the local community around a common cause – protecting a natural resource. To accompany the scientific studies that are occurring from 2014-2016, this educational project has been designed to take place during this same time frame (three years). The following goals and objectives have been outlined as part of this educational initiative:

### **Goals:**

- Continue to increase public awareness of AIS issues by disseminating information at boat landings, at community events, at resorts and businesses, and through mailings to homeowners on the Chain.
- Continue to participate in the “Clean Boats/Clean Waters” volunteer watercraft inspection program. Train new volunteers. Training will be done at the Annual Meeting and at boat landings as new volunteers are identified.
- Continue to implement a rapid response strategy in the event more AIS is discovered. Educate boaters about the infestation in the Long Lake Channel and Virgin Lake and what they can do to prevent its spread.
- Continue the Adopt-A-Shoreline program. Train new volunteers.
- Update signage at the 16 Kiosks constructed at boat landings on the Chain.
- Create and distribute new public educational materials in a user-friendly and useful format.

### **Objectives:**

- New volunteers from the Three Lakes Waterfront Association will be identified and trained for the “Clean Boats/Clean Waters” and “Adopt-A-Shoreline” programs. The training will take place after the Annual Meeting in July as well as at boat landings as new volunteers are identified.
- Mailings will continue to be sent to lake property owners to acquaint them with the AIS problem and how they can help with prevention.
- Establish and staff a volunteer inspection schedule for ~55 days of each season at boat landings and provide boaters with a handout packet of AIS identification and response information.
- Hire two seasonal coordinators each year to implement the volunteer training, and schedule and supervise boat launch inspections.
- Prepare and distribute materials for display at local businesses, Chamber of Commerce, public events, and at the kiosks at public landings.

- Continue to implement a rapid response strategy in case AIS is suspected on Chain waters.
- Continue to implement the Adopt-A-Shoreline program developed in 2006.
- Develop information and education strategies to help implement VHS rules on the Chain.

## **DESCRIPTION OF METHODS AND ACTIVITIES**

### **Clean Boats/Clean Waters Program**

Three Lakes Chain volunteers will continue to implement the Clean Boats/Clean Waters program on the chain of lakes. Methods learned by volunteers through the Clean Boats/Clean Waters program will be used for watercraft inspection and education of watercraft users. Volunteers conducting inspections will collect data on appropriate DNR forms, and coordinators will enter weekly summaries on the DNR website. Boat landings will be monitored per a schedule encompassing Fridays, Saturdays, Sundays and select holidays for 165 days (~55 days per year) during the 2014, 2015 and 2016 boating seasons.

### **Additional Programs and Actions**

The Rapid Response Team was developed in 2005 to quickly react to suspicions of AIS infestation within the Three Lakes Chain, including positively identifying suspect plants and placing buoys around AIS colonies. The Rapid Response Team will continue its work and refine its response techniques. The Team will evaluate the use of GPS and portable float markers to facilitate precise location of known and suspect AIS infestations.

The Adopt-A-Shoreline program was first developed in 2006. Trained volunteers search the littoral area of defined shoreline segments for signs of AIS infestation. This program has been quite successful and well staffed by Three Lakes Chain volunteers. In 2013, the Adopt-A-Shoreline program will be expanded. Volunteers will be trained in identification techniques, use of underwater scopes and cameras, survey patterns, sampling, mapping and marking. These techniques will be utilized during the 2014, 2015 and 2016 open water seasons as well.

### **Further Education and Reporting**

Educational and volunteer recruitment literature will be mailed to property owners and made available at area businesses, public events, boat landings and seminars. In addition to this, pertinent signage at public boat landing kiosks will be updated as needed throughout the project with educational material or volunteer opportunities.

Final reports to the DNR and other interested entities will be produced on an annual basis. The TLWA will share information with the Oneida County Lakes and Rivers Association, other lake associations, and continue its close cooperation with the Oneida and Vilas County AIS coordinators.

### **Data to be Collected**

Data collected will be what is required by the WDNR. Appropriate forms will be a key source. In addition, anecdotal information from volunteers and coordinators will be collected each year



of the project. A data collection and record keeping system will be fully implemented for the Rapid Response Team and Adopt-A-Shoreline programs.

## **PROJECT DELIVERABLES**

Project deliverables from the AIS Education project will consist of documentation of volunteer hours served, production of educational literature and volunteer recruitment materials, and final reports for each year of the project. Additionally, results will be shared with other interested parties who may benefit from knowledge of this successful model program.

### **Volunteer Hours**

At least 6,600 volunteer hours (~2,200 per year from 2014-2016) will be spent at five major boat landings and the Burnt Rollways Dam and landing. Additional landings will be manned if a sufficient number of new volunteers are recruited. Some landings will require more time than others based on boat traffic. 900 volunteer hours over the 2014-2016 time period are anticipated from Adopt-A-Shoreline efforts. Hours per lake will be submitted to interested entities.

### **Educational Materials**

An AIS identification and reporting/response packet will be provided to each boater. Information packets will also be available at participating marinas, Chamber of Commerce and through local water safety patrol. Educational literature and volunteer recruitment materials will be produced and distributed to all property owners as well as made available in public venues.

### **Final Project Reporting**

Completed appropriate WDNR forms for Clean Boats/Clean Waters and other project will be produced, and submitted to the WDNR, TLWA and others following each open water season. An annual report will be drafted and distributed to the WDNR, Oneida County Land and Water Conservation Department and other interested entities near the end of the calendar year in 2014 and 2015. This report will include updated pictures of kiosks/signage, accounts of total volunteer hour efforts, as well as public education materials and promotional materials. A comprehensive final report will report upon activities completed during the entire project timeframe (2014-2016), and will be submitted by December 31, 2016.

### **Additional Plan for Sharing Results**

The Town of Three Lakes, WDNR, Three Lakes Waterfront Association, Three Lakes Chamber of Commerce, Oneida County, OCLRA, and other interested entities will be target groups for sharing project results.

In 2006, the TLWA was a major source of information for other lake associations. Parties from Eagle River, the Alice Lake Association, the Two Sisters Lake Association, and the Vilas County Partnership looked to Three Lakes as a model program. This continued in 2008 with a presentation to the Lake Lucerne Association. Also in 2008 and in early 2009, presentations at public hearings were made regarding the AIS problems in the Long Lake Channel. In addition, in 2009, an AIS presentation was given at the Lone Stone Lake Association meeting. In 2011, TLWA consulted with representatives from Manitowish Waters Association, Seven Mile Lake

Association and Pelican Lake Association. Continuing in 2012, TLWA consulted with lake leaders on Seven Mile Lake, Lone Stone Lake, and Nine Mile Lake, as well as interacting at other lake association meetings. We anticipate continuing to be a leader in northern Wisconsin by sharing our experiences with other groups. TLWA board members have served on WAL planning committees for regional meetings as well as assisting OCLRA in County meetings.

## PROJECT PARTNERSHIPS

The Town of Three Lakes and the Three Lakes Waterfront Association (TLWA) are major partners in this project. Naturally, the WDNR will play a major role, as all of the activities will be in accordance with the standards provided by the WDNR. In addition, the Three Lakes Chamber of Commerce along with the organizations providing letters of support will also be partners in the project. We will continue our cooperative working relationship with the Vilas County AIS program and work to foster greater cooperation with and participation in the Oneida County AIS program as its new coordinator develops new leadership programs.

In recent years, the TLWA has become much more active in the Oneida County Lakes and Rivers Association (OCLRA). We have a member of our Board of Directors assigned to attend and participate in all the activities of OCLRA.

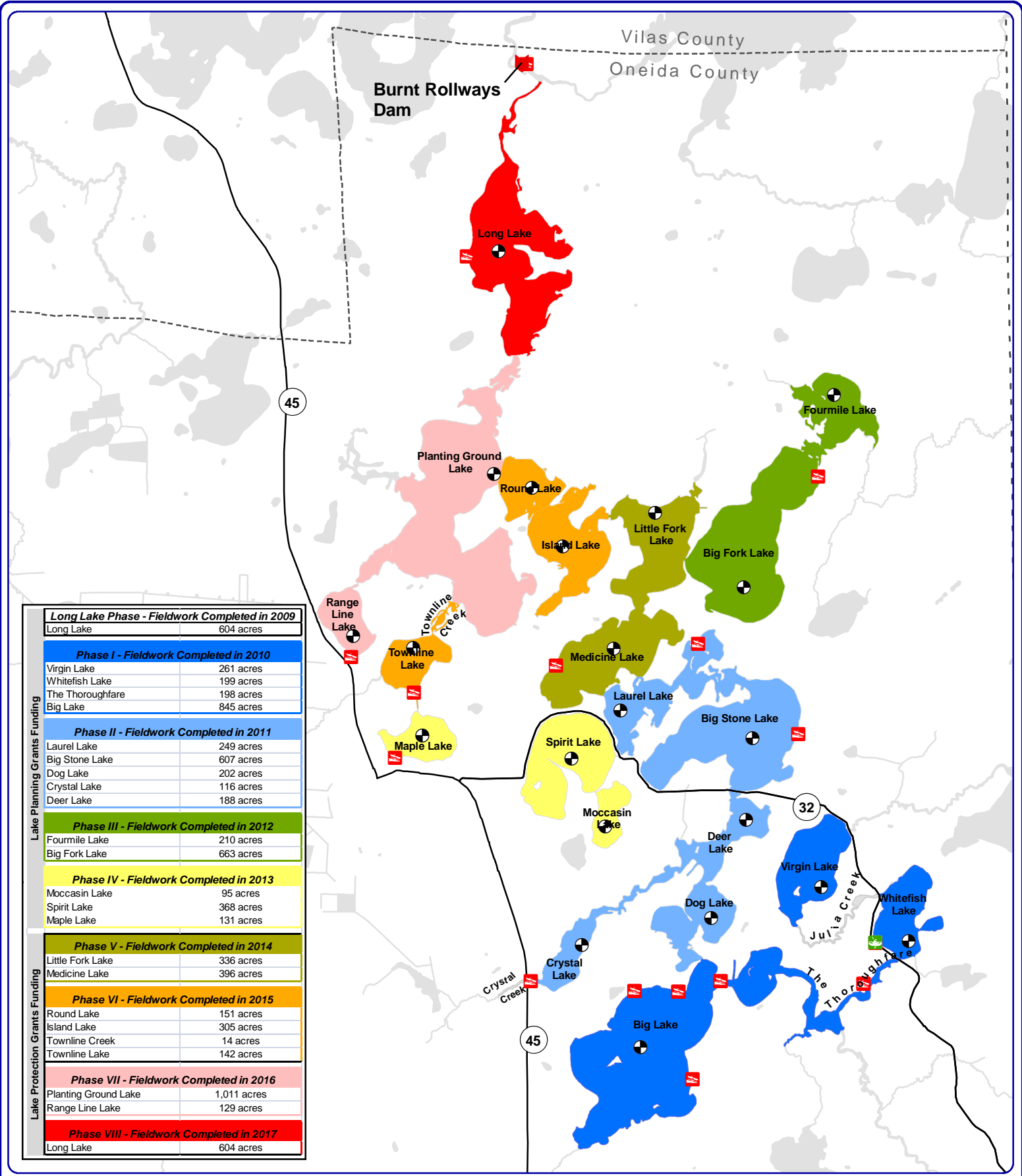
In 2013 and previous years, the Town of Three Lakes had committed to 10% of project costs in support of the TLWA's management planning efforts. In 2014, the Town of Three Lakes will continue to support management endeavors through committing towards 5% of the total project costs.

## ANNUAL TENTATIVE PROJECT SCHEDULE, 2014-2016

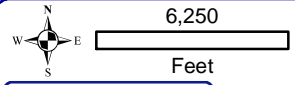
April 1	Letter to property owners about the grant-funded project, AIS problem, and initial recruitment and renewal of volunteers.
May 1	Second letter of recruitment to property owners.
May 15	Volunteer recruitment, training, and landing volunteer work schedule complete.
May 15	Hiring of lead coordinator and assistant coordinator complete.
May-Sept.	Implementation of "Clean Boats/Clean Waters" and "Adopt-A-Shoreline" programs.
June-Aug.	Establish information booths at Three Lakes summer events, and other community events as opportunities arise.
July	Conduct a workshop at the conclusion of the Annual Meeting for new CB/CW and Adopt-A-Shoreline volunteers.
Dec. 31	Complete annual reports.

## COST BREAKDOWN TABLE – PHASES V & VI

Three Lakes Management Planning Project - Phases V & VI	Cash Costs	Donated Value
<b>Consulting Services</b>		
Project Administration & Communications	\$4,885.00	
Stakeholder Participation - Onterra Facilitation	\$7,775.00	
Watershed Assessment	\$3,360.00	
Water Quality Assessment	\$8,215.00	
Fishery Data Compilation	\$700.00	
Shoreland Condition & Course Woody Habitat Assessment	\$4,940.00	
Early-Season AIS Surveys	\$4,115.00	
Point-Intercept Surveys	\$9,940.00	
Aquatic Plant Community Mapping	\$5,440.00	
Additional AIS-Related Surveys	\$6,245.00	
Final Report/Plan Preparation	\$10,535.00	
Specimen Preservation & Vouchering	\$1,980.00	
Printing, Shipping, & Plant Vouchering Materials	\$800.00	
Travel (Lodging, Incidentals, & Mileage @ 0.58/mi)	\$6,000.00	
Professional Dreissena Mussel Monitoring (\$600/lake)		\$3,000.00
<b>Other Fees</b>		
State Laboratory of Hygiene Fees	\$7,412.97	
<b>Volunteer Efforts - Three Lakes AIS Educational Program</b>		
<b>Clean Boats Clean Waters (5 landings, 3 years)</b>		
Volunteer Inspections (Fri, Sat, Sun and holidays May-Sept., 2014-2016)		\$79,200.00
Purchase of informational cards for boater education packets (Direct Spending by Town)		\$3,000.00
Promotional Materials (Direct Spending by Town)		\$3,000.00
<b>Education of Visiting Boaters &amp; Property Owners</b>		
Printing, paper, postage, envelopes, labels etc. (\$6,660 Direct Spending by Town)	\$2,940.00	\$6,660.00
AIS public education materials production		\$3,000.00
Volunteer time to design and coordinate production		\$1,800.00
<b>Program Administration</b>		
Two summer interns (1,084 hrs @ \$12/hr for 3 years)	\$39,024.00	
Board member volunteer hours		\$14,400.00
Board member mileage for CB/CW coordination	\$1,500.00	
<b>Adopt-a-Shoreline Program</b>		
Volunteer Time		\$10,800.00
Workshops for Lake Leaders	\$600.00	
Buoys to mark EWM beds	\$1,500.00	
<i>Subtotal</i>	\$127,906.97	\$124,860.00
<b>Total Project</b>	<b>\$252,766.97</b>	
<b>State Share Requested (Cash Costs Only)</b>	<b>\$127,906.97</b>	



Long Lake Phase - Fieldwork Completed in 2009	
Long Lake	604 acres
Phase I - Fieldwork Completed in 2010	
Virgin Lake	261 acres
Whitefish Lake	199 acres
The Thoroughfare	198 acres
Big Lake	845 acres
Phase II - Fieldwork Completed in 2011	
Laurel Lake	249 acres
Big Stone Lake	607 acres
Dog Lake	202 acres
Crystal Lake	116 acres
Deer Lake	188 acres
Phase III - Fieldwork Completed in 2012	
Fourmile Lake	210 acres
Big Fork Lake	663 acres
Phase IV - Fieldwork Completed in 2013	
Moccasin Lake	95 acres
Spirit Lake	368 acres
Maple Lake	131 acres
Phase V - Fieldwork Completed in 2014	
Little Fork Lake	336 acres
Medicine Lake	396 acres
Phase VI - Fieldwork Completed in 2015	
Round Lake	151 acres
Island Lake	305 acres
Townline Creek	14 acres
Townline Lake	142 acres
Phase VII - Fieldwork Completed in 2016	
Planting Ground Lake	1,011 acres
Range Line Lake	129 acres
Phase VIII - Fieldwork Completed in 2017	
Long Lake	604 acres



**Onterra LLC**  
 Lake Management Planning  
 815 Prosper Road  
 De Pere, WI 54115  
 920.338.8860  
 www.onterra-eco.com

Sources:  
 Roads & Hydro: WDNR  
 Map Date: December 7, 2012  
 Filename: Map1\_3Lakes\_Location.mxd



Extent of large map shown in red.

**Legend**

- Public Access - Watercraft Landing
- Public Access - Carry-in
- Water Quality Sampling Location
- Burnt Rollway Dam

**Map 1**  
**Three Lakes Chain**  
 Oneida County, Wisconsin  
**Project Boundaries**  
**and Water Quality**  
**Sampling Locations**

**Notice:** Use of this form is required by the DNR for any application filed pursuant to ch. NR 190 or 191, Wis. Adm. Code. Personal information (PI data) collected on this form, including such data as your name, address, phone number, etc., will be used for management and enforcement of DNR programs, and is not intended to be used for any other purpose. Information will be made accessible to requesters under Wisconsin's Open Records laws (s. 19.32 – 19.39, Wis. Stats.) and requirements.

**Section I: Application Type**

<input checked="" type="checkbox"/> <b>Lake Management Planning Grant</b> <i>Check one:</i> <input type="checkbox"/> Large-scale planning grant <input type="checkbox"/> Small-scale planning grant  <i>Check one:</i> <input type="checkbox"/> Lake education <input type="checkbox"/> Organizational development <input type="checkbox"/> Other study or assessment, or multiple-purpose project	<input checked="" type="checkbox"/> <b>Lake Management Protection Grant</b> <i>Check one:</i> <input type="checkbox"/> Wetland restoration <input type="checkbox"/> Ordinance development <input checked="" type="checkbox"/> Lake improvement <input type="checkbox"/> Lake classification <input type="checkbox"/> Land or easement acquisition
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Legislative District Numbers		To determine your legislative district, go to <a href="http://165.189.139.210/WAML/">http://165.189.139.210/WAML/</a>  Type in complete address, next screen shows information
Senate	Assembly	
12	34	

**Section II: Applicant Information**

Applicant Three Lakes Waterfront Association, Inc.			Type of Eligible Applicant		
Lake Name Little Fork, Medicine, Round, Island, & Townline Lakes		Size in Acres 1,344	<input type="checkbox"/> County	<input type="checkbox"/> Tribe	<input type="checkbox"/> Other Governmental Unit
Project County/Township/Section/Range Oneida/T38N/S11E/S6			<input type="checkbox"/> City	<input type="checkbox"/> Sanitary District	<input type="checkbox"/> Non Profit Conservation Organization
Authorized Representative Named by Resolution Norris Ross			<input type="checkbox"/> Village	<input type="checkbox"/> Lake District	<input type="checkbox"/> School Districts (Planning)
Authorized Representative Title Vice President			<input type="checkbox"/> Town	<input checked="" type="checkbox"/> Lake Association	
Address 7365 Wheeler Island Rd.			Project Contact Name Tim Hoyman		
City Three Lakes			Project Contact Title Aquatic Ecologist, Onterra, LLC		
State Wi			Address 815 Prosper Rd.		
ZIP Code 54562			City De Pere		State WI
Daytime Phone (area code) 715.546.2250			Daytime Phone (area code) 920.338.8860		ZIP Code 54115
Evening Phone (area code) 715.546.2250			Evening Phone (area code) 920.362.5698 (Cell)		
E-mail Address norrisross@frontier.com			E-mail Address thoyman@onterra-eco.com		

**Mail Check to:** (if different from applicant)

Name and Title		Address	
Organization	City	State	ZIP Code

For DNR Use Only			
Application Type	Date Received	Date Reviewed (LC)	Lake Coordinator Approval / Date
Waterbody ID#	Adequate Public Access <input type="checkbox"/> Yes <input type="checkbox"/> No		Environmental Grants Specialist Approval / Date
Eligible Project <input type="checkbox"/> Yes <input type="checkbox"/> No	Eligible Applicant <input type="checkbox"/> Yes <input type="checkbox"/> No		Project Priority Rank
Prior Grant Award(s) <input type="checkbox"/> Yes <input type="checkbox"/> No	Fiscal Year(s)	Amount Received To Date \$	Project Awarded <input type="checkbox"/> Yes <input type="checkbox"/> No

# Lake Management Grant Application

Form 8700-283 (R 12/11)

Page 2 of 4

### Section III: Project Information

Project Title Three Lakes Management Planning Project - Phases V & VI	Proposed Ending Date June 30, 2017
--------------------------------------------------------------------------	---------------------------------------

Other Management Units Around Lake	Letter of Support	Other Management Units Around Lake	Letter of Support
1. Town of Three Lakes	<input checked="" type="checkbox"/>	4.	<input type="checkbox"/>
2. Oneida County Land & Water Cons. Dept.	<input checked="" type="checkbox"/>	5.	<input type="checkbox"/>
3.	<input type="checkbox"/>	6.	<input type="checkbox"/>

### Section IV: Lake Access

Number of Public Vehicle Trailer Parking Spaces Available at Public Access Sites: Approximately 200

Number of Public Access Sites on Lake Including Boat Launches and Walk-ins: 14 (Three Lakes Chain) & 8 (Lower Eagle River Chain)

### Section V: Cost Estimate and Grant Request

Section V must be completed or application will be returned. Details in support of Section V are welcome.	Project Costs		
	Column 1 Cash Costs	Column 2 Donated Value	DNR Use Only
1. Salaries, wages and employee benefits	\$39,024.00		
2. Consulting services	\$74,930.00	\$3,000.00	
3. Purchased services—printing and mailing		\$12,660.00	
4. Other purchased services (specify):	\$5,040.00		
5. Plant material			
6. Supplies (specify)	\$1,500.00		
7. Depreciation on equipment			
8. Hourly equipment use charges			
9. State Lab of Hygiene (SLOH) Costs	\$7,412.97		
10. Non-SLOH Lab Costs			
11. Land or easement acquisition value			
12. Associated acquisition costs			
13. Other (specify) Volunteer Efforts		\$109,200.00	
14. <b>Subtotals</b> (sum each column)	<b>\$127,906.97</b>	<b>\$124,860.00</b>	
15. <b>Total Project Cost Estimate</b> (sum of column 1 plus sum of column 2)	<b>\$252,766.97</b>		
16. <b>State Share Requested</b> (calculate based on State share listed below)	<b>\$127,906.97</b>		

Subject to the following maximum grant amounts:

- Large-scale lake planning projects--up to \$25,000 – 67% State share
- Small-scale lake planning projects--up to \$3,000 – 67% State share
- Lake classification and regulation or ordinance development projects--up to \$50,000 – 75% State share
- Lake protection projects (other than lake classification and regulation or ordinance development projects)--up to \$200,000 – 75% State share

Use of Federal funding as match: (check box below if applicable)

We are using or planning to apply for Federal funds to be used as match.

If known, indicate source of funding:

**Section VI: Attachments (check all that are included)**

**A. For all applicants:**

- 1. Authorizing resolution
- 2. Letters of support
- 3. Map of project location and boundaries
- 4. Lake map with public access sites identified (per Section IV of this application and page 33 of the guidelines)
- 5. Itemized breakdown of expenses
- 6. For projects that entail sending samples to the State Laboratory of Hygiene (SLOH) only: a completed SLOH Projected Cost Form
- 7. Project scope/description:
  - a. Description of project area
  - b. Description of problem to be addressed by project
  - c. Discussion of project goals and objectives
  - d. Description of methods and activities
  - e. Description of project products or deliverables
  - f. Description of data to be collected, if applicable
  - g. Description of existing and proposed partnerships
  - h. Discussion of role of project in planning and/or management of lake
  - i. Timetable for implementation of key activities
  - j. Plan for sharing project results
  - k. Other information in support of project not described above

**B. For applicants that are Lake Management Organizations (LMOs) or Non-profit Conservation Organizations (NCOs):**

- 1. For first time applicant LMOs only: A completed Form 8700-226 (Lake Association Organizational Application)
- 2. For first time applicant NCOs only: Copy of IRS 501(c)(3) determination letter and copies of your Articles of Incorporation and Bylaws
- 3. List of national and/or statewide organizations with which you are affiliated
- 4. List of board members' names, including municipality and county of residence. Designate officers
- 5. Documentation of current financial status
- 6. For land or easement acquisition projects: Detailed description of your organization's land management experience
- 7. Brochures, newsletters, annual reports or other information about your organization

**C. Wetland Restoration Projects:**

- 1. Deed, easement, or land control agreement
- 2. Preliminary engineering plans
- 3. Water regulatory permits
- 4. Map of project location and boundaries

**D. Ordinance Development Projects:**

- 1. Inventory of applicable existing ordinances
- 2. Description of resources each jurisdiction allocates to enforcement
- 3. Preliminary surveys

**E. Lake Improvement Projects:**

- 1. Engineering and design plans
- 2. Water regulatory permits
- 3. Map of project location and boundaries

**Section VI: Attachments, continued**

**F. Land or easement acquisition projects:**

- 1. DNR Form 1800-1 (Environmental Hazards Assessment Form)
- 2. Legal description of the property
- 3. Project location boundary map
- 4. Property or easement appraisal (if not previously submitted to the Department)
- 5. If escrow closing, the title insurance commitment
- 6. Evidence of compliance with Uniform Relocation Act requirements, if applicable
- 7. Agricultural Impact Statement, if applicable
- 8. Status of acquisition negotiations, including expected time frame for closing
- 9. A land management plan
  - a. Full description of property and conditions
  - b. Description of current and proposed uses of property and adjoining properties
  - c. Management requirements for property
  - d. If roads, piers or grading are proposed, a topographic survey with feature locations, and design cross sections

**Section VII: Certification**

I certify that information in this application and all its attachments are true and correct and in conformity with applicable Wis.Statutes.

Print/Type Name of Authorized Representative Norris Ross	Title of Authorized Representative Vice President
Signature of Authorized Representative	Date Signed



Conservation & UWEX  
Education Committee  
Tom Rudolph, Chair  
Bob Martini, Vice  
Greg Berard  
Jim Intrepidi  
Bob Mott  
Clint Zimbeck, FSA  
Members



Conservation & UWEX Education Committee  
Land & Water Conservation Department  
3375 Airport Rd # 10  
Rhineland, Wisconsin 54501  
Phone (715) 365-2750  
Fax (715) 365-2760

*Jean Hansen*  
County Conservationist

*Michele Sadauskas*  
AIS Coordinator

*Kerri Ison*  
Administrative Assistant

January 15, 2013

Mr. Kevin Gauthier, Sr.  
Lakes Coordinator  
Wisconsin Dept of Natural Resources  
107 Sutliff Avenue  
Rhineland, WI 54501

Dear Mr. Gauthier:

On behalf of the Oneida County Conservation & UWEX Committee, I am writing this letter of support for the DNR Aquatic Invasive Species (AIS) grant being requested by the Three Lakes Waterfront Association (TLWA).

The TLWA has been an active group in protecting the resources in and around the Upper Eagle River Chain of Lakes for many years. They have made great strides in managing Eurasian Water milfoil (EWM) in the past several years in the Long Lake Channel and Virgin Lake with the help of the Wisconsin Department of Natural Resources (WDNR) AIS grants. Their plan is to continue to monitor this area and educate boaters of the infestation to help prevent the spread of EWM. A rapid response strategy will be implemented in case new infestations of AIS occur.

The TLWA has been in a multi phase project with the ultimate goal of having a comprehensive management plan for each lake, eighteen to be exact, in the Upper Eagle River Chain of Lakes, aka Three Lakes Chain of Lakes. In this grant application, Phase IV is proposed and will include Maple, Spirit and Moccasin Lakes. Included in this proposal is the assessment of the lake's water quality, aquatic vegetation, watershed, and shoreline condition. The gathered information will be used to analyze and discuss concerns and issues not only with Maple, Spirit and Moccasin Lakes, but with the "Chain" as a whole. Oneida County totally agrees with the proactive stance the TLWA has taken in the past and is proposing in the future.

TLWA will also continue with their efforts to implement the Clean Boats-Clean Waters Program. The Association is seeking, through the WDNR AIS grant program, to employ and train new AIS inspectors to monitor designated public boat landings, educate the public about the invasive species threat, and reduce the spread of AIS in the Chain. The Adopt-a-Shoreline program has been in place since 2006 and training new volunteers is proposed. The TLWA will report their efforts and accomplishments to the public, Oneida County and WDNR.

TLWA projects will complement Goal 1: Slow the spread of invasive species listed in the 2012-2016 Oneida County Land and Water Resource Management (LWRM) Plan. The TLWA project also falls under the following activities in our county's LWRM plan; # 2, educating shoreland owners, users, and boaters on AIS issues, # 4, implement and use approved techniques and data from research, # 6, encourage volunteers to participate in Clean Boats/Clean Waters boat landing inspections, and # 7, assist DNR with obtaining volunteers/inspectors to monitor lakes in the county.

Oneida County Conservation & UWEX Education Committee supports the Three Lakes Waterfront Association's efforts and urges the Wisconsin Department of Natural Resources to award this grant. We appreciate the past commitment of the WDNR to partner with local government and lake groups in preserving our water quality in the Northern region and hope to continue that strong partnership into the future.

Thank you for considering this grant proposal.

Sincerely,

*Tom Rudolph*  
Tom Rudolph  
Chairperson



January 16, 2013

Mr. Kevin Gauthier  
Lakes Coordinator  
Wisconsin Department of Natural Resources  
107 Sutliff Avenue  
Rhineland WI 54501

Dear Mr. Gauthier:

On behalf of the Three Lakes Town Board of Supervisors, who adopted a resolution at their January 15 regular meeting authorizing this action, we are writing this letter of support for the Clean Boats/Clean Waters, Adopt-A-Shoreline, and Lake Management Planning grant applications being submitted by the Three Lakes Waterfront Association (TLWA).

The TLWA continues to serve as the sponsor for these grant applications. As you are aware there are twenty lakes on the Three Lakes Chain that would be helped by these grants. In 2013, the next three lakes in the chain will be covered in the lake management plan as the TLWA continues to move from the headwaters of the chain towards the Burnt Rollways dam. This well thought out approach is allowing us to systematically characterize each body of water and to address any AIS issues before they can move farther down the chain.

We are once again sending what has now become this annual letter for support to emphasize the long-standing commitment by the Town of Three Lakes to preserving the health and cleanliness of our waters. At their annual budget meeting at the end of November 2012, the Town's electors once again approved matching funds for the 2013 Town Budget. We urge your Department to award the grants for these very worthwhile and effective projects.

We appreciate the commitment of the WDNR to partner with local government and lake groups in preserving our water quality in the Northwoods of Wisconsin. Thank you for considering these grant applications.

Sincerely yours,

A handwritten signature in black ink that reads "Don Sidlowski". The signature is written in a cursive style with a large initial "D".

Don Sidlowski  
Chairman - Town of Three Lakes

cc: Norris Ross (TLWA)

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Second Year FY 2014

Lake Name: Little Fork Lake  
 Waterbody ID#: 1610600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2013  
 Y 2014

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter	
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
<b>NUTRIENTS</b>																
DISSOLVED REACTIVE P (ORTHO)										2			2	\$17.17	\$34.34	
TOTAL PHOSPHORUS										2		2	4	\$24.31	\$97.23	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$24.31	\$0.00	
TOTAL KJELDAHL NITROGEN										2			2	\$33.98	\$67.96	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)										2			2	\$27.81	\$55.62	
AMMONIA-N, DISSOLVED										2			2	\$26.67	\$53.33	
<b>OTHER WET CHEMISTRY</b>																
AUTOMATED CONDUCTIVITY, PH & ALKALINITY										2			2	\$22.66	\$45.32	
ALKALINITY, GRAN TECHNIQUE													0	\$55.62	\$0.00	
CHLORIDE													0	\$20.60	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$23.98	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED										1		1	2	\$25.26	\$50.51	
COLOR, TRUE, PT-CO										1			1	\$25.75	\$25.75	
HARDNESS, CALCULATION METHOD (When Metals Done)										1			1	\$5.53	\$5.53	
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$54.40	\$0.00	
SULFATE (EPA 375.2)													0	\$26.78	\$0.00	
SUSPENDED SOLIDS										2			2	\$19.36	\$38.73	
TOTAL DISSOLVED SOLIDS, 180 C													0	\$17.64	\$0.00	
TOTAL VOLATILE SOLIDS													0	\$10.33	\$0.00	
TURBIDITY													0	\$10.30	\$0.00	
FIELD TESTS (For each lab slip with Field Testing Recorded)	0	0	0	0	0	0	0	0	0	0	2	0	2	4	\$3.09	\$12.36
<b>TOTAL METALS</b>																
CALCIUM, TOTAL RECOVERABLE, ICP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$13.39	\$13.39	
IRON, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$22.09	\$22.09	
<b>WATER BACTI</b>																
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$38.11	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$38.11	\$0.00	
<b>Grand Total =</b>															\$522.17	

Number of Inorganic Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 2 0 2 4 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Thrid Year FY 2015

Lake Name: Little Fork Lake  
 Waterbody ID#: 1610600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2014  
 Y 2015

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter		
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun					
<b>NUTRIENTS</b>																	
DISSOLVED REACTIVE P (ORTHO)	2							2						4	\$17.69	\$70.74	
TOTAL PHOSPHORUS	2	2		2				2						8	\$25.04	\$200.30	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)														0	\$25.04	\$0.00	
TOTAL KJELDAHL NITROGEN	2							2						4	\$35.00	\$140.00	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	2							2						4	\$28.64	\$114.58	
AMMONIA-N, DISSOLVED	2							2						4	\$27.47	\$109.87	
<b>OTHER WET CHEMISTRY</b>																	
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	2													2	\$23.34	\$46.68	
ALKALINITY, GRAN TECHNIQUE														0	\$57.29	\$0.00	
CHLORIDE														0	\$21.22	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED														0	\$24.70	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	1	1		1										3	\$26.01	\$78.04	
COLOR, TRUE, PT-CO	1													1	\$26.52	\$26.52	
HARDNESS, CALCULATION METHOD (When Metals Done)	1													1	\$5.70	\$5.70	
HARDNESS, CALCULATION METHOD (When Metals not Done)														0	\$56.04	\$0.00	
SULFATE (EPA 375.2)														0	\$27.58	\$0.00	
SUSPENDED SOLIDS	2			2										4	\$19.94	\$79.78	
TOTAL DISSOLVED SOLIDS, 180 C														0	\$18.17	\$0.00	
TOTAL VOLATILE SOLIDS														0	\$10.64	\$0.00	
TURBIDITY														0	\$10.61	\$0.00	
FIELD TESTS (For each labslip with Field Testing Recorded)	2	2	0	2	0	0	0	0	2	0	0	0	0	8	\$3.18	\$25.46	
<b>TOTAL METALS</b>																	
CALCIUM, TOTAL RECOVERABLE, ICP	1	0	0	0	0	0	0	0	0	0	0	0	0	1	\$13.79	\$13.79	
IRON, TOTAL RECOVERABLE, ICP														0	\$13.79	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP														0	\$13.79	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP														0	\$13.79	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP														0	\$13.79	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP														0	\$13.79	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	1	0	0	0	0	0	0	0	0	0	0	0	0	1	\$22.76	\$22.76	
<b>WATER BACTI</b>																	
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN														0	\$39.25	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$39.25	\$0.00	
<b>Grand Total =</b>																	\$934.21

Number of Inorganic Lab Slips (Machine Determined) 2 2 0 2 0 0 0 0 2 0 0 0 0 0 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Grand Total

Lake Name: Little Fork Lake  
 Waterbody ID#: 1610600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association

Review Period:  
 Application Period:

Parameter	Analyses For Grant	Grant Cost For Parameter
<b>NUTRIENTS</b>		
DISSOLVED REACTIVE P (ORTHO)	6	\$105.08
TOTAL PHOSPHORUS	12	\$297.53
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	0	\$0.00
TOTAL KJELDAHL NITROGEN	6	\$207.96
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	6	\$170.20
AMMONIA-N, DISSOLVED	6	\$163.20
<b>OTHER WET CHEMISTRY</b>		
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	4	\$92.00
ALKALINITY, GRAN TECHNIQUE	0	\$0.00
CHLORIDE	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	5	\$128.55
COLOR, TRUE, PT-CO	2	\$52.27
HARDNESS, CALCULATION METHOD (When Metals Done)	2	\$11.23
HARDNESS, CALCULATION METHOD (When Metals not Done)	0	\$0.00
SULFATE (EPA 375.2)	0	\$0.00
SUSPENDED SOLIDS	6	\$118.51
TOTAL DISSOLVED SOLIDS, 180 C	0	\$0.00
TOTAL VOLATILE SOLIDS	0	\$0.00
TURBIDITY	0	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	12	\$37.82
<b>TOTAL METALS</b>		
CALCIUM, TOTAL RECOVERABLE, ICP	2	\$27.18
IRON, TOTAL RECOVERABLE, ICP	0	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP	0	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	2	\$44.85
<b>WATER BACTI</b>		
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	0	\$0.00
Fecal Coliform (MFFCC)	0	\$0.00
<b>Grand Total =</b>		<b>\$1,456.38</b>

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Second Year FY 2014

Lake Name: Medicine Lake  
 Waterbody ID#: 1611700  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2013  
 Y 2014

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter	
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
<b>NUTRIENTS</b>																
DISSOLVED REACTIVE P (ORTHO)										2			2	\$17.17	\$34.34	
TOTAL PHOSPHORUS										2		2	4	\$24.31	\$97.23	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$24.31	\$0.00	
TOTAL KJELDAHL NITROGEN										2			2	\$33.98	\$67.96	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)										2			2	\$27.81	\$55.62	
AMMONIA-N, DISSOLVED										2			2	\$26.67	\$53.33	
<b>OTHER WET CHEMISTRY</b>																
AUTOMATED CONDUCTIVITY, PH & ALKALINITY										2			2	\$22.66	\$45.32	
ALKALINITY, GRAN TECHNIQUE													0	\$55.62	\$0.00	
CHLORIDE													0	\$20.60	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$23.98	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED										1		1	2	\$25.26	\$50.51	
COLOR, TRUE, PT-CO										1			1	\$25.75	\$25.75	
HARDNESS, CALCULATION METHOD (When Metals Done)										1			1	\$5.53	\$5.53	
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$54.40	\$0.00	
SULFATE (EPA 375.2)													0	\$26.78	\$0.00	
SUSPENDED SOLIDS										2			2	\$19.36	\$38.73	
TOTAL DISSOLVED SOLIDS, 180 C													0	\$17.64	\$0.00	
TOTAL VOLATILE SOLIDS													0	\$10.33	\$0.00	
TURBIDITY													0	\$10.30	\$0.00	
FIELD TESTS (For each lab slip with Field Testing Recorded)	0	0	0	0	0	0	0	0	0	0	2	0	2	4	\$3.09	\$12.36
<b>TOTAL METALS</b>																
CALCIUM, TOTAL RECOVERABLE, ICP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$13.39	\$13.39	
IRON, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.39	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$22.09	\$22.09	
<b>WATER BACTI</b>																
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$38.11	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$38.11	\$0.00	
<b>Grand Total =</b>															\$522.17	

Number of Inorganic Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 2 0 2 4 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Thrid Year FY 2015

Lake Name: Medicine Lake  
 Waterbody ID#: 1611700  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2014  
 Y 2015

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
<b>NUTRIENTS</b>															
DISSOLVED REACTIVE P (ORTHO)	2							2					4	\$17.69	\$70.74
TOTAL PHOSPHORUS	2	2		2				2					8	\$25.04	\$200.30
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.04	\$0.00
TOTAL KJELDAHL NITROGEN	2							2					4	\$35.00	\$140.00
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	2							2					4	\$28.64	\$114.58
AMMONIA-N, DISSOLVED	2							2					4	\$27.47	\$109.87
<b>OTHER WET CHEMISTRY</b>															
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	2												2	\$23.34	\$46.68
ALKALINITY, GRAN TECHNIQUE													0	\$57.29	\$0.00
CHLORIDE													0	\$21.22	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$24.70	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	1	1		1									3	\$26.01	\$78.04
COLOR, TRUE, PT-CO	1												1	\$26.52	\$26.52
HARDNESS, CALCULATION METHOD (When Metals Done)	1												1	\$5.70	\$5.70
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$56.04	\$0.00
SULFATE (EPA 375.2)													0	\$27.58	\$0.00
SUSPENDED SOLIDS	2			2									4	\$19.94	\$79.78
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.17	\$0.00
TOTAL VOLATILE SOLIDS													0	\$10.64	\$0.00
TURBIDITY													0	\$10.61	\$0.00
FIELD TESTS (For each labslip with Field Testing Recorded)	2	2	0	2	0	0	0	0	2	0	0	0	8	\$3.18	\$25.46
<b>TOTAL METALS</b>															
CALCIUM, TOTAL RECOVERABLE, ICP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$13.79	\$13.79
IRON, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$22.76	\$22.76
<b>WATER BACTI</b>															
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$39.25	\$0.00
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$39.25	\$0.00
<b>Grand Total =</b>															\$934.21

Number of Inorganic Lab Slips (Machine Determined) 2 2 0 2 0 0 0 0 2 0 0 0 0 8 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)



**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Grand Total

Lake Name: Medicine Lake  
 Waterbody ID#: 1611700  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association

Review Period:  
 Application Period:

Parameter	Analyses For Grant	Grant Cost For Parameter
<b>NUTRIENTS</b>		
DISSOLVED REACTIVE P (ORTHO)	6	\$105.08
TOTAL PHOSPHORUS	12	\$297.53
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	0	\$0.00
TOTAL KJELDAHL NITROGEN	6	\$207.96
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	6	\$170.20
AMMONIA-N, DISSOLVED	6	\$163.20
<b>OTHER WET CHEMISTRY</b>		
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	4	\$92.00
ALKALINITY, GRAN TECHNIQUE	0	\$0.00
CHLORIDE	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	5	\$128.55
COLOR, TRUE, PT-CO	2	\$52.27
HARDNESS, CALCULATION METHOD (When Metals Done)	2	\$11.23
HARDNESS, CALCULATION METHOD (When Metals not Done)	0	\$0.00
SULFATE (EPA 375.2)	0	\$0.00
SUSPENDED SOLIDS	6	\$118.51
TOTAL DISSOLVED SOLIDS, 180 C	0	\$0.00
TOTAL VOLATILE SOLIDS	0	\$0.00
TURBIDITY	0	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	12	\$37.82
<b>TOTAL METALS</b>		
CALCIUM, TOTAL RECOVERABLE, ICP	2	\$27.18
IRON, TOTAL RECOVERABLE, ICP	0	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP	0	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	2	\$44.85
<b>WATER BACTI</b>		
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	0	\$0.00
Fecal Coliform (MFFCC)	0	\$0.00
<b>Grand Total =</b>		<b>\$1,456.38</b>

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Thrid Year FY 2015

Lake Name: Round Lake  
 Waterbody ID#: 1610400  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2014  
 Y 2015

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter	
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
<b>NUTRIENTS</b>																
DISSOLVED REACTIVE P (ORTHO)										2			2	\$17.69	\$35.37	
TOTAL PHOSPHORUS										2		2	4	\$25.04	\$100.15	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.04	\$0.00	
TOTAL KJELDAHL NITROGEN										2			2	\$35.00	\$70.00	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)										2			2	\$28.64	\$57.29	
AMMONIA-N, DISSOLVED										2			2	\$27.47	\$54.93	
<b>OTHER WET CHEMISTRY</b>																
AUTOMATED CONDUCTIVITY, PH & ALKALINITY										2			2	\$23.34	\$46.68	
ALKALINITY, GRAN TECHNIQUE													0	\$57.29	\$0.00	
CHLORIDE													0	\$21.22	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$24.70	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED										1		1	2	\$26.01	\$52.03	
COLOR, TRUE, PT-CO										1			1	\$26.52	\$26.52	
HARDNESS, CALCULATION METHOD (When Metals Done)										1			1	\$5.70	\$5.70	
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$56.04	\$0.00	
SULFATE (EPA 375.2)													0	\$27.58	\$0.00	
SUSPENDED SOLIDS										2			2	\$19.94	\$39.89	
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.17	\$0.00	
TOTAL VOLATILE SOLIDS													0	\$10.64	\$0.00	
TURBIDITY													0	\$10.61	\$0.00	
FIELD TESTS (For each labslip with Field Testing Recorded)	0	0	0	0	0	0	0	0	0	0	2	0	2	4	\$3.18	\$12.73
<b>TOTAL METALS</b>																
CALCIUM, TOTAL RECOVERABLE, ICP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$13.79	\$13.79	
IRON, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$22.76	\$22.76	
<b>WATER BACTI</b>																
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$39.25	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$39.25	\$0.00	
														<b>Grand Total =</b>	\$537.83	

Number of Inorganic Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 2 0 2 4 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Fourth Year FY 2016

Lake Name: Round Lake  
 Waterbody ID#: 1610400  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2015  
 Y 2016

Parameter	Samples/Month												Analyses/ Year	Price/ Analysis	Annual Cost For Parameter
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
<b>NUTRIENTS</b>															
DISSOLVED REACTIVE P (ORTHO)	2							2					4	\$18.22	\$72.86
TOTAL PHOSPHORUS	2	2		2				2					8	\$25.79	\$206.31
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.79	\$0.00
TOTAL KJELDAHL NITROGEN	2							2					4	\$36.05	\$144.20
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	2							2					4	\$29.50	\$118.01
AMMONIA-N, DISSOLVED	2							2					4	\$28.29	\$113.16
<b>OTHER WET CHEMISTRY</b>															
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	2												2	\$24.04	\$48.08
ALKALINITY, GRAN TECHNIQUE													0	\$59.01	\$0.00
CHLORIDE													0	\$21.85	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$25.44	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	1	1		1									3	\$26.79	\$80.38
COLOR, TRUE, PT-CO	1												1	\$27.32	\$27.32
HARDNESS, CALCULATION METHOD (When Metals Done)	1												1	\$5.87	\$5.87
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$57.72	\$0.00
SULFATE (EPA 375.2)													0	\$28.41	\$0.00
SUSPENDED SOLIDS	2			2									4	\$20.54	\$82.17
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.72	\$0.00
TOTAL VOLATILE SOLIDS													0	\$10.96	\$0.00
TURBIDITY													0	\$10.93	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	2	2	0	2	0	0	0	2	0	0	0	0	8	\$3.28	\$26.23
<b>TOTAL METALS</b>															
CALCIUM, TOTAL RECOVERABLE, ICP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$14.21	\$14.21
IRON, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$23.44	\$23.44
<b>WATER BACTI</b>															
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$40.43	\$0.00
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$40.43	\$0.00
														<b>Grand Total =</b>	\$962.23

Number of Inorganic Lab Slips (Machine Determined) 2 2 0 2 0 0 0 0 2 0 0 0 0 8 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Grand Total

Lake Name: Round Lake  
 Waterbody ID#: 1610400  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association

Review Period:  
 Application Period:

Parameter	Analyses For Grant	Grant Cost For Parameter
<b>NUTRIENTS</b>		
DISSOLVED REACTIVE P (ORTHO)	6	\$108.23
TOTAL PHOSPHORUS	12	\$306.46
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	0	\$0.00
TOTAL KJELDAHL NITROGEN	6	\$214.19
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	6	\$175.30
AMMONIA-N, DISSOLVED	6	\$168.10
<b>OTHER WET CHEMISTRY</b>		
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	4	\$94.76
ALKALINITY, GRAN TECHNIQUE	0	\$0.00
CHLORIDE	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	5	\$132.41
COLOR, TRUE, PT-CO	2	\$53.84
HARDNESS, CALCULATION METHOD (When Metals Done)	2	\$11.56
HARDNESS, CALCULATION METHOD (When Metals not Done)	0	\$0.00
SULFATE (EPA 375.2)	0	\$0.00
SUSPENDED SOLIDS	6	\$122.06
TOTAL DISSOLVED SOLIDS, 180 C	0	\$0.00
TOTAL VOLATILE SOLIDS	0	\$0.00
TURBIDITY	0	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	12	\$38.96
<b>TOTAL METALS</b>		
CALCIUM, TOTAL RECOVERABLE, ICP	2	\$28.00
IRON, TOTAL RECOVERABLE, ICP	0	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP	0	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	2	\$46.20
<b>WATER BACTI</b>		
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	0	\$0.00
Fecal Coliform (MFFCC)	0	\$0.00
<b>Grand Total =</b>		<b>\$1,500.07</b>

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Thrid Year FY 2015

Lake Name: Island Lake  
 Waterbody ID#: 1610500  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2014  
 Y 2015

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter	
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
<b>NUTRIENTS</b>																
DISSOLVED REACTIVE P (ORTHO)										2			2	\$17.69	\$35.37	
TOTAL PHOSPHORUS										2		2	4	\$25.04	\$100.15	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.04	\$0.00	
TOTAL KJELDAHL NITROGEN										2			2	\$35.00	\$70.00	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)										2			2	\$28.64	\$57.29	
AMMONIA-N, DISSOLVED										2			2	\$27.47	\$54.93	
<b>OTHER WET CHEMISTRY</b>																
AUTOMATED CONDUCTIVITY, PH & ALKALINITY										2			2	\$23.34	\$46.68	
ALKALINITY, GRAN TECHNIQUE													0	\$57.29	\$0.00	
CHLORIDE													0	\$21.22	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$24.70	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED										1		1	2	\$26.01	\$52.03	
COLOR, TRUE, PT-CO										1			1	\$26.52	\$26.52	
HARDNESS, CALCULATION METHOD (When Metals Done)										1			1	\$5.70	\$5.70	
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$56.04	\$0.00	
SULFATE (EPA 375.2)													0	\$27.58	\$0.00	
SUSPENDED SOLIDS										2			2	\$19.94	\$39.89	
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.17	\$0.00	
TOTAL VOLATILE SOLIDS													0	\$10.64	\$0.00	
TURBIDITY													0	\$10.61	\$0.00	
FIELD TESTS (For each labslip with Field Testing Recorded)	0	0	0	0	0	0	0	0	0	0	2	0	2	4	\$3.18	\$12.73
<b>TOTAL METALS</b>																
CALCIUM, TOTAL RECOVERABLE, ICP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$13.79	\$13.79	
IRON, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$22.76	\$22.76	
<b>WATER BACTI</b>																
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$39.25	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$39.25	\$0.00	
														<b>Grand Total =</b>	\$537.83	

Number of Inorganic Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 2 0 2 4 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Fourth Year FY 2016

Lake Name: Island Lake  
 Waterbody ID#: 1610500  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2015  
 Y 2016

Parameter	Samples/Month												Analyses/ Year	Price/ Analysis	Annual Cost For Parameter		
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun					
<b>NUTRIENTS</b>																	
DISSOLVED REACTIVE P (ORTHO)	2							2						4	\$18.22	\$72.86	
TOTAL PHOSPHORUS	2	2		2				2						8	\$25.79	\$206.31	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)														0	\$25.79	\$0.00	
TOTAL KJELDAHL NITROGEN	2							2						4	\$36.05	\$144.20	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	2							2						4	\$29.50	\$118.01	
AMMONIA-N, DISSOLVED	2							2						4	\$28.29	\$113.16	
<b>OTHER WET CHEMISTRY</b>																	
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	2													2	\$24.04	\$48.08	
ALKALINITY, GRAN TECHNIQUE														0	\$59.01	\$0.00	
CHLORIDE														0	\$21.85	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED														0	\$25.44	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	1	1		1										3	\$26.79	\$80.38	
COLOR, TRUE, PT-CO	1													1	\$27.32	\$27.32	
HARDNESS, CALCULATION METHOD (When Metals Done)	1													1	\$5.87	\$5.87	
HARDNESS, CALCULATION METHOD (When Metals not Done)														0	\$57.72	\$0.00	
SULFATE (EPA 375.2)														0	\$28.41	\$0.00	
SUSPENDED SOLIDS	2			2										4	\$20.54	\$82.17	
TOTAL DISSOLVED SOLIDS, 180 C														0	\$18.72	\$0.00	
TOTAL VOLATILE SOLIDS														0	\$10.96	\$0.00	
TURBIDITY														0	\$10.93	\$0.00	
FIELD TESTS (For each lab slip with Field Testing Recorded)	2	2	0	2	0	0	0	0	2	0	0	0	0	8	\$3.28	\$26.23	
<b>TOTAL METALS</b>																	
CALCIUM, TOTAL RECOVERABLE, ICP	1	0	0	0	0	0	0	0	0	0	0	0	0	1	\$14.21	\$14.21	
IRON, TOTAL RECOVERABLE, ICP														0	\$14.21	\$0.00	
MAGNESIUM, TOTAL RECOVERABLE, ICP														0	\$14.21	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP														0	\$14.21	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP														0	\$14.21	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP														0	\$14.21	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	1	0	0	0	0	0	0	0	0	0	0	0	0	1	\$23.44	\$23.44	
<b>WATER BACTI</b>																	
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN														0	\$40.43	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$40.43	\$0.00	
<b>Grand Total =</b>																	\$962.23

Number of Inorganic Lab Slips (Machine Determined) 2 2 0 2 0 0 0 0 2 0 0 0 0 0 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Grand Total

Lake Name: Island Lake  
 Waterbody ID#: 1610500  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association

Review Period:  
 Application Period:

Parameter	Analyses For Grant	Grant Cost For Parameter
<b>NUTRIENTS</b>		
DISSOLVED REACTIVE P (ORTHO)	6	\$108.23
TOTAL PHOSPHORUS	12	\$306.46
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	0	\$0.00
TOTAL KJELDAHL NITROGEN	6	\$214.19
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	6	\$175.30
AMMONIA-N, DISSOLVED	6	\$168.10
<b>OTHER WET CHEMISTRY</b>		
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	4	\$94.76
ALKALINITY, GRAN TECHNIQUE	0	\$0.00
CHLORIDE	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	5	\$132.41
COLOR, TRUE, PT-CO	2	\$53.84
HARDNESS, CALCULATION METHOD (When Metals Done)	2	\$11.56
HARDNESS, CALCULATION METHOD (When Metals not Done)	0	\$0.00
SULFATE (EPA 375.2)	0	\$0.00
SUSPENDED SOLIDS	6	\$122.06
TOTAL DISSOLVED SOLIDS, 180 C	0	\$0.00
TOTAL VOLATILE SOLIDS	0	\$0.00
TURBIDITY	0	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	12	\$38.96
<b>TOTAL METALS</b>		
CALCIUM, TOTAL RECOVERABLE, ICP	2	\$28.00
IRON, TOTAL RECOVERABLE, ICP	0	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP	0	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	2	\$46.20
<b>WATER BACTI</b>		
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	0	\$0.00
Fecal Coliform (MFFCC)	0	\$0.00
<b>Grand Total =</b>		<b>\$1,500.07</b>

LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Thrid Year FY 2015

Lake Name: Townline Lake  
 Waterbody ID#: 1609600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2014  
 Y 2015

Parameter	Samples/Month												Analyses/ Fiscal Year	Price/ Analysis	Annual Cost For Parameter	
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
<b>NUTRIENTS</b>																
DISSOLVED REACTIVE P (ORTHO)										2			2	\$17.69	\$35.37	
TOTAL PHOSPHORUS										2		2	4	\$25.04	\$100.15	
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.04	\$0.00	
TOTAL KJELDAHL NITROGEN										2			2	\$35.00	\$70.00	
NITRATE+NITRITE (AS N), DISS (EPA 353.2)										2			2	\$28.64	\$57.29	
AMMONIA-N, DISSOLVED										2			2	\$27.47	\$54.93	
<b>OTHER WET CHEMISTRY</b>																
AUTOMATED CONDUCTIVITY, PH & ALKALINITY										2			2	\$23.34	\$46.68	
ALKALINITY, GRAN TECHNIQUE													0	\$57.29	\$0.00	
CHLORIDE													0	\$21.22	\$0.00	
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$24.70	\$0.00	
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED										1		1	2	\$26.01	\$52.03	
COLOR, TRUE, PT-CO										1			1	\$26.52	\$26.52	
HARDNESS, CALCULATION METHOD (When Metals Done)										1			1	\$5.70	\$5.70	
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$56.04	\$0.00	
SULFATE (EPA 375.2)													0	\$27.58	\$0.00	
SUSPENDED SOLIDS										2			2	\$19.94	\$39.89	
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.17	\$0.00	
TOTAL VOLATILE SOLIDS													0	\$10.64	\$0.00	
TURBIDITY													0	\$10.61	\$0.00	
FIELD TESTS (For each labslip with Field Testing Recorded)	0	0	0	0	0	0	0	0	0	0	2	0	2	4	\$3.18	\$12.73
<b>TOTAL METALS</b>																
CALCIUM, TOTAL RECOVERABLE, ICP	0	0	0	0	0	0	0	0	0	0	0	0	0	\$13.79	\$0.00	
IRON, TOTAL RECOVERABLE, ICP										1			1	\$13.79	\$13.79	
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
SODIUM, TOTAL RECOVERABLE, ICP													0	\$13.79	\$0.00	
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	0	0	0	0	0	0	0	0	0	1	0	0	1	\$22.76	\$22.76	
<b>WATER BACTI</b>																
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$39.25	\$0.00	
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$39.25	\$0.00	
														<b>Grand Total =</b>		\$537.83

Number of Inorganic Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 2 0 2 4 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)



LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS

Fourth Year FY 2016

Lake Name: Townline Lake  
 Waterbody ID#: 1609600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association  
 Will the Lab be doing filtration for dissolved parameters? (Y/N)  
 Will field tests be recorded on the Lab Slip?

Review Period:  
 Application Period:

Y 2015  
 Y 2016

Parameter	Samples/Month												Analyses/ Year	Price/ Analysis	Annual Cost For Parameter
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
<b>NUTRIENTS</b>															
DISSOLVED REACTIVE P (ORTHO)	2							2					4	\$18.22	\$72.86
TOTAL PHOSPHORUS	2	2		2				2					8	\$25.79	\$206.31
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)													0	\$25.79	\$0.00
TOTAL KJELDAHL NITROGEN	2							2					4	\$36.05	\$144.20
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	2							2					4	\$29.50	\$118.01
AMMONIA-N, DISSOLVED	2							2					4	\$28.29	\$113.16
<b>OTHER WET CHEMISTRY</b>															
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	2												2	\$24.04	\$48.08
ALKALINITY, GRAN TECHNIQUE													0	\$59.01	\$0.00
CHLORIDE													0	\$21.85	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED													0	\$25.44	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	1	1		1									3	\$26.79	\$80.38
COLOR, TRUE, PT-CO	1												1	\$27.32	\$27.32
HARDNESS, CALCULATION METHOD (When Metals Done)	1												1	\$5.87	\$5.87
HARDNESS, CALCULATION METHOD (When Metals not Done)													0	\$57.72	\$0.00
SULFATE (EPA 375.2)													0	\$28.41	\$0.00
SUSPENDED SOLIDS	2			2									4	\$20.54	\$82.17
TOTAL DISSOLVED SOLIDS, 180 C													0	\$18.72	\$0.00
TOTAL VOLATILE SOLIDS													0	\$10.96	\$0.00
TURBIDITY													0	\$10.93	\$0.00
FIELD TESTS (For each lab slip with Field Testing Recorded)	2	2	0	2	0	0	0	2	0	0	0	0	8	\$3.28	\$26.23
<b>TOTAL METALS</b>															
CALCIUM, TOTAL RECOVERABLE, ICP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$14.21	\$14.21
IRON, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
MAGNESIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP													0	\$14.21	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	1	0	0	0	0	0	0	0	0	0	0	0	1	\$23.44	\$23.44
<b>WATER BACTI</b>															
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN													0	\$40.43	\$0.00
Fecal Coliform (MFFCC)	0	0	0	0	0	0	0	0	0	0	0	0	0	\$40.43	\$0.00
														<b>Grand Total =</b>	\$962.23

Number of Inorganic Lab Slips (Machine Determined) 2 2 0 2 0 0 0 0 2 0 0 0 0 8 =Total Inorganic Lab Slips for Fiscal Year  
 Number of Bacti Lab Slips (Machine Determined) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 =Total Bacti Lab Slips for Fiscal Year  
 Number of Inorganic Lab Slips (from workplans)

**LAKE/RIVER PLANNING GRANTS PROJECTED LAB COSTS**

Grand Total

Lake Name: Townline Lake  
 Waterbody ID#: 1609600  
 County: Oneida  
 Applicant Name: Three Lakes Waterfront Association

Review Period:  
 Application Period:

Parameter	Analyses For Grant	Grant Cost For Parameter
<b>NUTRIENTS</b>		
DISSOLVED REACTIVE P (ORTHO)	6	\$108.23
TOTAL PHOSPHORUS	12	\$306.46
TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	0	\$0.00
TOTAL KJELDAHL NITROGEN	6	\$214.19
NITRATE+NITRITE (AS N), DISS (EPA 353.2)	6	\$175.30
AMMONIA-N, DISSOLVED	6	\$168.10
<b>OTHER WET CHEMISTRY</b>		
AUTOMATED CONDUCTIVITY, PH & ALKALINITY	4	\$94.76
ALKALINITY, GRAN TECHNIQUE	0	\$0.00
CHLORIDE	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE, FIELD FILTERED	0	\$0.00
CHLOROPHYLL A, FLUORESCENCE LAB FILTERED	5	\$132.41
COLOR, TRUE, PT-CO	2	\$53.84
HARDNESS, CALCULATION METHOD (When Metals Done)	2	\$11.56
HARDNESS, CALCULATION METHOD (When Metals not Done)	0	\$0.00
SULFATE (EPA 375.2)	0	\$0.00
SUSPENDED SOLIDS	6	\$122.06
TOTAL DISSOLVED SOLIDS, 180 C	0	\$0.00
TOTAL VOLATILE SOLIDS	0	\$0.00
TURBIDITY	0	\$0.00
FIELD TESTS (For each labslip with Field Testing Recorded)	12	\$38.96
<b>TOTAL METALS</b>		
CALCIUM, TOTAL RECOVERABLE, ICP	1	\$14.21
IRON, TOTAL RECOVERABLE, ICP	1	\$13.79
MAGNESIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
MANGANESE, TOTAL RECOVERABLE, ICP	0	\$0.00
POTASSIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
SODIUM, TOTAL RECOVERABLE, ICP	0	\$0.00
DIGESTION, TOT. RECOV. LOW LEVEL, ICP + ICP SETUP	2	\$46.20
<b>WATER BACTI</b>		
E COLI ENZYMATIC SUBTRATE QUANTITRAY MPN	0	\$0.00
Fecal Coliform (MFFCC)	0	\$0.00
<b>Grand Total =</b>		<b>\$1,500.07</b>