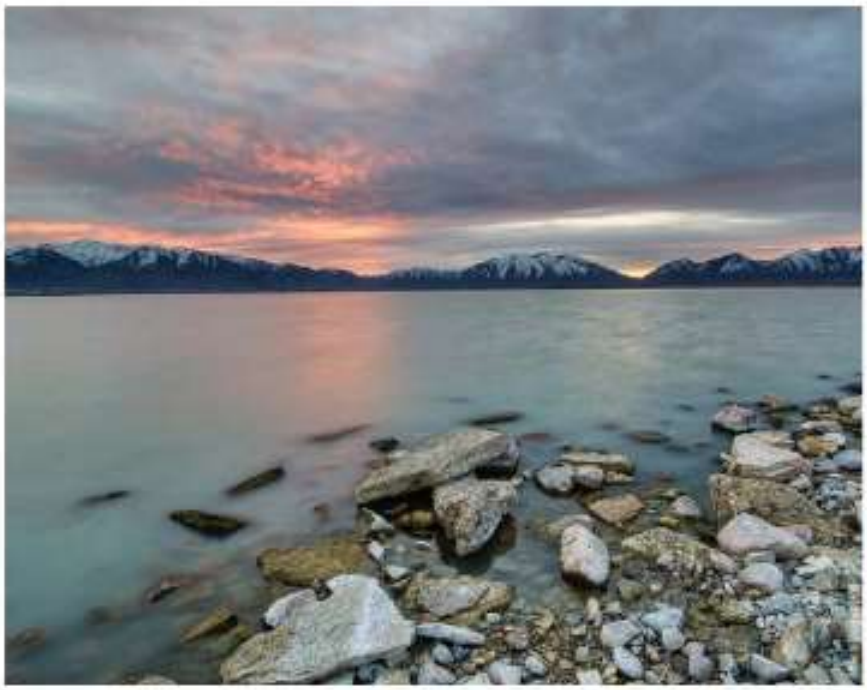


Utah Lake Nature Center

Programmatic Facility Concept

Table of Contents

Executive Summary

One of the goals of the Utah Lake Master Plan is to create a nature and research center at Utah Lake that serves as a place for educational opportunities, where the public may learn about the recreational and natural resources the lake and the entire ecoregion offer. This document has been created to show what the ideal facility would contain. It also identifies potential partnerships that can be established to ensure the eventual construction and operation of the facility. Whereas a location for this facility has not yet been identified, this document can be used to determine what locations around the lake are best suited for the type of facility that we envision. Input was obtained from a wide variety of stakeholders.

In addition, this document will help us be better equipped as potential partners are approached with these conceptual ideas and plans that have been produced through a collaborative effort of the public and lake stakeholders. Several sections of the document describe the components needed in the nature and research center and identify potential partners and funding options for that element. These include exhibit and classroom space, a reception center, outdoor amenities such as trails, an amphitheater, and bird watching structures. Needs for the research component include a dry and wet lab, classrooms, and accommodation of boats, offices and storage.

Introduction

The Utah Lake Master Plan was created with the cooperation of dozens of Utah Lake stakeholders as well as the general public. It was completed in June, 2009. Many groups and government agencies have been jointly working to accomplish the vision created by the plan. One of the goals identified during the planning process was to create a nature and research center to promote our region and to provide educational opportunities for both local schools and higher education institutions. As documented during the planning process through numerous comments from lake stakeholders and the public, this type of facility is long past due in this area of Utah.

The Utah Lake Nature and Research Center will be a focal point to promote not only the many different components of the lake, but also those of our region. This includes the numerous recreation opportunities that are available on and around the lake as well as in the valley and mountains. It will promote the understanding of the abundant natural resources in the area. It will greatly enhance efforts to promote the lake. The center will also be a major connection point for the regional trail system, particularly the 80+ mile trail planned to circumnavigate the lake. Interpretative boardwalks and trails will be constructed near the center to allow visitors to easily observe the valuable wetland resources. Visitors to the county can visit the center to learn about what this area has to offer.

The center will be a great resource to the area's three local school districts, which service over 115,000 students. School classes that already travel to the Utah Lake State Park for annual field trips will be able to go to the center to reinforce the principles taught to them in the classroom using lesson plans that use the lake as a focal point to teach core concepts. Likewise, the center can be a key location for researchers to explore the unique environment of Utah Lake.

BUILDING FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Exhibit Areas

PURPOSE

Provide a place to educate the public on the value of Utah Lake and other natural and recreational resources in our region.

Display areas will depict historical and educational information about the lake and our region. It will be an area to display projects, share discoveries, display awards, and allow for hands-on activities.

DESIGN CONSIDERATIONS

- Area for permanent displays
- Area for temporary displays
- Classroom/auditorium, in conjunction with the Research Center

Potential Partners

- State universities and colleges
- Local school districts
- Individuals who wish to donate collections

Potential Funding

- Private donations of specimens
- Private funding
- Federal funding
- University funding

BUILDING FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Reception Center

PURPOSE

Provide a unique environment for weddings, receptions, community gatherings, professional seminars, and conferences.

Fees raised from these events are an essential component of covering operating costs of the center.

DESIGN CONSIDERATIONS

- Open area
- Tables (round, banquet)
- Folding chairs
- Display area
- Storage
- Kitchen prep area
- Sound system

Potential Partners

- Local restaurants or food service businesses

Potential Funding

- Self-supporting

BUILDING FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Staff Office

PURPOSE

It is intended that the Utah Lake Commission would provide oversight of the facility to conduct scheduling of the facility.

DESIGN CONSIDERATIONS

- Private locked offices: All vital office and digital equipment
- WIFI

Storage Room(s)

PURPOSE

Maintain control, organization, and inventory of supplies and equipment

DESIGN CONSIDERATIONS

- Storage for portable tables and chairs
- Strong shelving
- Custodial supplies
- Emergency supplies (first aid)
- Hip boots and like equipment
- Unknown future storage needs

Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Visiting scholars

Potential Funding

- Federal funding
- Local municipalities
- University funding

OUTDOOR FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Bird Tower

PURPOSE

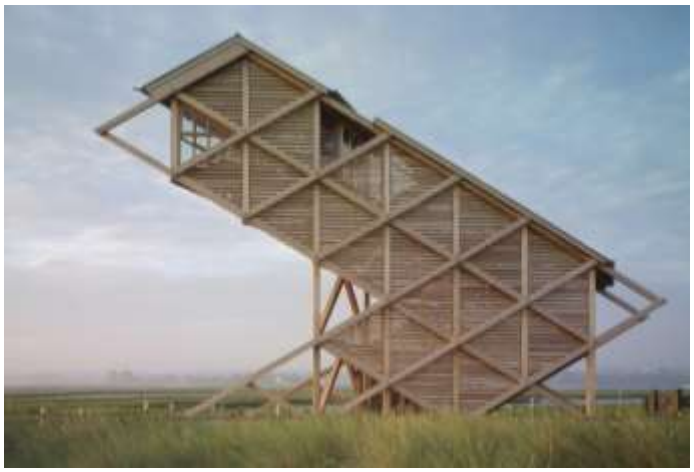
Observe nesting areas

Document birding habits and numbers

Instruction about birds

DESIGN CONSIDERATIONS

- Several at different points on the lake shore
- Representative sites for different bird communities
- Consult the local bird-watching community



Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Audubon Society
- Ducks Unlimited
- Other wildlife organizations

Potential Funding

- Federal funding
- Local municipalities
- University funding
- Audubon Society

OUTDOOR FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Bird Blinds

PURPOSE

Observe nesting areas

Document birding habits and numbers

Instruct on birds

DESIGN CONSIDERATIONS

- More than one around the lake for birders

Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Audubon Society
- Private birdwatchers
- Other birding groups

Potential Funding

- Federal funding
- Local municipalities
- University funding
- Audubon Society

OUTDOOR FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Amphitheater

PURPOSE

For outdoor instruction on Utah Lake and other vital area subjects

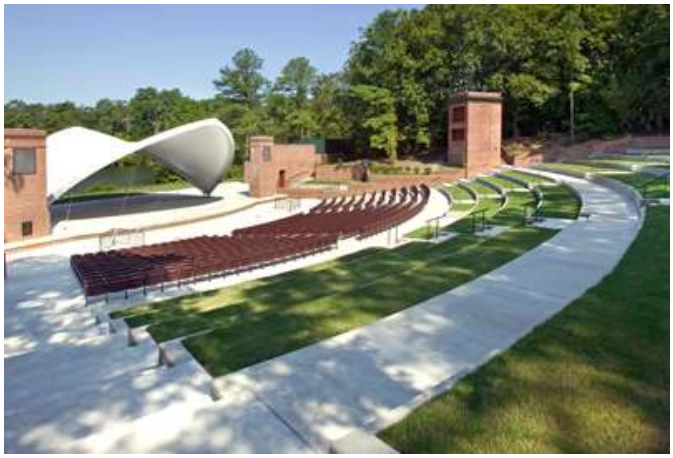
Possible concerts (more income)

Ability to raise awareness of projects

Field trip instruction

DESIGN CONSIDERATIONS

- Outdoor facility to accomodate 100 people
- Designed for proper acoustics
- Potential for multi-use



Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Boy Scouts of America
- Audubon Society
- Private birdwatchers
- Arts and Entertainment venues

Potential Funding

- Federal funding
- Local municipalities
- Audubon Society

OUTDOOR FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Trails/Boardwalks

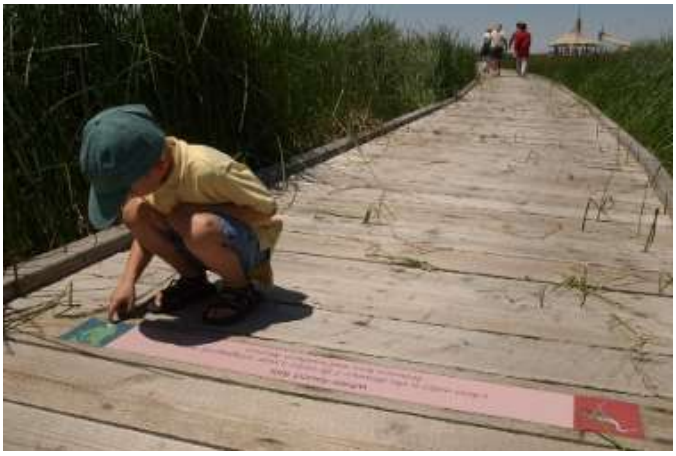
PURPOSE

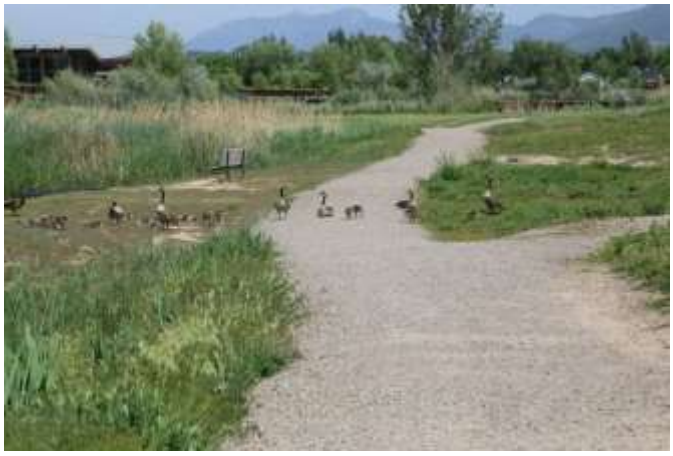
Educate public on water, riparian areas, wetlands, wildlife, invasive species, and native vegetation

Hub for all trails leading into Utah Lake Nature Center

DESIGN CONSIDERATIONS

- Public trail access
- Points of interest
- Boardwalks through wetlands
- Signage
- Self-guided tour





<u>Potential Partners</u>

- Utah County citizens
- Municipalities
- Private contractors with interest in making the lake an interesting and valuable place

<u>Potential Funding</u>

- Federal government
- Local governments
- Municipalities
- Private donors

OUTDOOR ACTIVITIES

ACTIVITIES

- Fishing instruction
  - Fishing equipment rental
  - Education – cleaning, preparing
- Fishing clubs
- Boat rentals
- Night programs
- Public outdoor spaces (camping)
- Fire pits

Native foliage (trees, open areas at different locations for tents, etc.)

RESEARCH FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Wet Lab

PURPOSE

Conduct sample prep and data collection for time-sensitive samples.

Space for researchers to bring their own equipment.

Space for researchers and students to conduct basic tests and experiments on the lake and surrounding environs.

Training area for high school and college students.

DESIGN CONSIDERATIONS

- Possibly 2 - 30x30 spaces
- Stainless steel benches
- Plastic benches
- Deionized water station/sink
- Refrigeration (fridge, freezer, ice maker)
- Camera in lab to facilitate remote learning
- 110V and 220V power
- Basic equipment, instrumentation, supplies and materials
- Concrete floor for easy clean up
- Restrooms with showers and lockers
- Climate control
- Picture window overlooking lake

Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Other educational organizations

Potential Funding

- Private funding
- Federal funding
- Local municipality funding

RESEARCH FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Dry Lab

PURPOSE

Co-located space with wet lab, serving similar purpose to provide space for researchers and students to conduct basic tests and experiments.

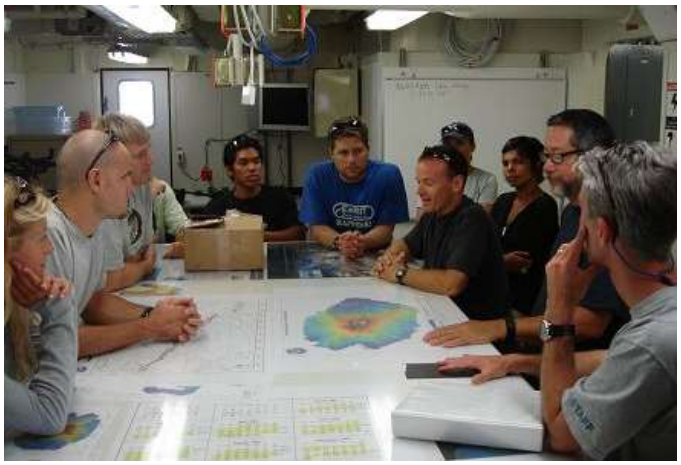
Benches for sample prep and data collection.

Training area for high school and college students

Potential for remote instruction

DESIGN CONSIDERATIONS

- Possibly 2- 30x30 spaces
- Stainless steel benches
- Acid-resistant benches
- Refrigeration (fridge, freezer, ice maker)
- Camera in lab to facilitate remote learning
- 110V and 220V power
- Basic equipment, instrumentation, supplies and materials
- Concrete floor for easy clean up
- Restrooms with showers and lockers
- Climate control
- Picture window overlooking lake



Potential Partners / Users

- State and local universities and colleges
- Local school districts
- Other educational organizations

Potential Funding

- Federal funding
- State funding
- Local municipality funding
- Local school district funding

RESEARCH FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Classroom/Auditorium

PURPOSE

Conduct high school and university classes

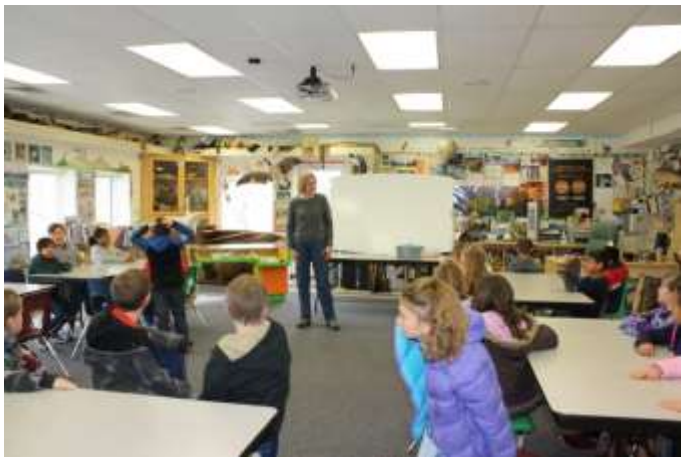
Disseminate research

Host symposiums, conferences, and workshops

Potential reception space

DESIGN CONSIDERATIONS

- 30-50 person capacity
- Presentation screen
- Display area for posters, research finding, etc.
- Long distance learning capable
- Corkboard
- Magnetic whiteboard
- Computerized visualization theater
- Digital slide projector



Potential Partners

- State and local universities and colleges
- Local school districts
- Other educational organizations

Potential Funding

- Federal funding
- Local school districts
- Local municipalities

Meteorology Room

PURPOSE

Variety of real-time lake monitoring able to be accessed by the public, schools, and research institutions including weather conditions, lake level, water quality, biota, and other parameters.

DESIGN CONSIDERATIONS

- Meteorological conditions
- Air quality
- Water quality
- All A/V equipment
- Telemetry equipment
- Meteorological equipment

Potential Partners

- University of Utah School of Atmospheric Sciences
  Contact - John Horel, PhD –
  Professor of Atmospheric Sciences
  Office Phone: (801) 581-7091
  Email: john.horel@utah.edu
- National Weather Service
- National Oceanic and Atmospheric Administration (NOAA)

Potential Funding

- Federal government
- Universities and school districts
- Private funding

RESEARCH FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Boat Facility

PURPOSE

Point to launch and securely store boats and equipment for on-lake testing and studies

DESIGN CONSIDERATIONS

- Boat cleaning station
- Material handling
- Space for several vessels for short- and long-term storage
- PFD storage
- Dock to launch boat or close access to a dock

Storage Facility

PURPOSE

Short-term storage for various sizes of tools and equipment

DESIGN CONSIDERATIONS

- Locking shelving units
- Locking cabinets
- Locking file cabinets

Potential Partners / Users

- State universities and colleges
- Local school districts

Potential Funding

- Federal government
- Local municipalities
- School districts
- Private funding

RESEARCH FACILITIES

Utah Lake Nature & Research Center
Proposed Facility Components

Research Office(s)

PURPOSE

Office space for researchers and teachers to have a place to prepare lessons or analyze results of scientific tests.

DESIGN CONSIDERATIONS

- Desk
- Computer with internet access
- Networked or wireless printer
- Copy machine

Conference Room

PURPOSE

Medium sized conference room with typical A/V connectivity.

DESIGN CONSIDERATIONS

- Web access
- Projection screen
- Table and chairs etc.

Potential Partners / Users

- State universities and colleges
- Local school districts

Potential Funding

- Federal government
- Local municipalities
- School districts
- Private funding

ORGANIZATIONAL

Utah Lake Nature & Research Center
Proposed Facility Components

STAFFING

- Focus on stewardship
- Ensure interaction
- Knowledgeable
- Public/School interaction
- Professional

PLANNING

- What are the negative impacts to:
  - Wetlands
  - Traffic
  - Roadway changes
  - Timing
- County transportation
  - Development plans
- Long-range environmental plans
  - Provo River Delta (include with these plans?)
- Uses of Lake and surrounding area
- Access points
- Hands-on-learning; non-technical
- Under/below ground tear away area with glass (below ground to observe)

Potential Funding

- National Science Foundation
- Western Museum Association
- American Association of Museums
- Boy Scouts of America

EDUCATIONAL / INSTRUCTIONAL ELEMENTS

- History/Archaeology
  - Prehistory
  - Recent past
- Citizen Science
  - Weather monitoring
  - Bird counts
- Habitats
  - Macro-invertebrates
  - Fish (Central place for June Sucker)
  - Birds
  - Aquarium
  - Live animals
  - Adaptations
- Outdoor components
  - Self-guided trail
  - Boardwalk
- Diorama of interactive of the lake
  - Lake Bonneville and the uniqueness to Utah Lake
  - Video stations (self-guided)
- Geology
  - Faults
  - Rock collecting (check with authorities)
- Focus on water
  - Wastewater treatment
  - Education
  - Riparian
- Weather/Wind
  - Monitoring stations
- Astronomy
  - Night gazing with telescopes
  - Navigation by stars
- Aquatic Education
- Water Quality

Recommendations and Next Steps

This document should serve as a basis for approaching potential partners that are interested in the planning, development, and eventual construction of a nature center and research facility at Utah Lake. The next steps include:

1. Present findings to the Utah Lake Commission Governing Board for their consideration. This facility is identified in the Utah Lake Master Plan and their endorsement of this conceptual design is essential as the planning process moves forward.
2. Establish a planning committee consisting of representatives of the potential partners identified in this document. This group will work together to move this project forward.
3. Using the criteria identified in this document, potential sites should be identified to determine where the ideal location should be. Criteria to be considered includes, but is not limited to: cost of land; proximity to the lake and other recreational opportunities; proximity to urban areas; availability of utilities; support of municipal planning;
4. Seek funding from the potential partners that are identified in this report. Consider approaching the private sector for additional funding and partnerships.

Appendix 1 – Nature Center Field Trip Summary

Utah Lake Commission Nature Center Field Trip Summary March 7, 2013

Attendees: Reed Price – Utah Lake Commission, Executive Director
Scott Root – Utah DWR, Conservation Outreach Manager
Chris Keleher – Utah DNR, Recovery Programs Manager
Michael Mills – Central Utah Water Conservancy District, JSRIP Local Recovery Program Manager
Marcy DeMillion – National Park Service RTCA, Community Planner
Ken Richley – National Park Service RTCA, Landscape Architect/Community Planner
Andree' Walker Bravo – Utah Society of Environmental Education, Executive Director

Facility Overviews:

Kennecott Nature Center – Judith Payne, Program Director

- Property is owned by Murray City.
- Property is staffed by Murray School District – One employee during the school year.
- Kennecott funded the building construction – one classroom building with restrooms.
- Funding: Small amount from Kennecott, remainder from Murray School District and Murray City.
- Impressive collection of exhibits.
- Nature Center caters to K-6 every school day. Teachers sign up with the Center at the beginning of the school year and attend 1-3 times throughout the year.
- Teachers play an active role in the presentations/programs.
- The Center gets 8,300 individual visits per year from students and 1,700 visits from adults.
- There is a liaison in each school.
- Programs are developed for every grade to attend 3 times per year and are integrated into the core curriculum.
- High School students have used the facility to take water samples from the Jordan River.
- Limited storage space.
- No services provided to the public because of limited funding.
- Natural elements at the site are used to teach environmental education.
- Parent to student ratio required.

Great Salt Lake Nature Center – Diana Voss, Director

- Services mainly Davis County School District.
- Staffed by the DNR, volunteers, and interns.
- DNR funds O&M.
- Located on CUP mitigation property.
- 4,000-5,000 students per year.
- Teachers not active in the process/program.

- No running water on the site.
- Two buildings – one small exhibit room and one very small project room.
- Great Salt Lake Interpretive trust => Utah Wildlife & Need Foundation
- Limited time for students to see the entire site.
- Environmental education is not tailored to school curriculum.
- Parent to student ratio required.

Utah Botanical Center – Jane Mulford, Director

- Three or more distinct areas of the UBC: The Utah House and grounds, The ponds and associated trails, and the Wetland Discovery Point.
- Utah State University owns the property.
- Staffed by Utah State University Extension – 3 full time positions.
- 4,000-5,000 students per year. $3/student except 4th grade. This allows this part of the program to break even.
- Approximately 10,000 adult visitors.
- Four activities are provided during the field trips and are tied to the core curriculum.
- Numerous summer camps are scheduled.
- Teachers are not part of the process/program.
- The Utah house is a demonstration house built with energy efficient features and was started with USDA funding.
- The Wetland Discovery Point uses tracking solar panels for energy and also uses water reclamation. It is one of a few certified LEED buildings in the state.
- USU research activities also occur on the site including a phragmites study occurring.
- The facility also hosts weddings as a method to generate money.

The Great Salt Lake Shorelands Preserve (The Nature Conservancy) – Mindy McAllister, Chris Brown

- The Nature Conservancy and Utah State University Botanical Center developed the "Wings and Water Field Guide" to the Preserve.
- A partnership between the Botanical Center and Shorelines Preserve funds environmental education to occur at the Preserve with a full time staff and one Utah State University student.
- Restrooms are available on site and open seasonally.
- The Nature Conservancy completes the maintenance and off sets the cost with livestock grazing to help manage noxious and invasive weeds.
- Construction materials were low maintenance and weathered, however, the materials used for shade have been vandalized, so the shade materials are not recommended for other sites.
- Interpretation signs are used to educate all population groups.
- Seating was thought about in the design, so in a few areas educators can stop with students/youth to talk about natural elements.
- Youth enjoy the bird watching tower and raised boardwalk.

Attendee Comments:

Scott Root:

1. Storage, storage and more storage
2. Hire staff and/or recruit volunteers that are well-organized, optimistic, creative, problem solvers and easy to work with (negative personalities can really hurt the environment of the nature Center).
3. A large room with a large window (capacity for 100 +?) would be a good option for being able to teach a large group, especially in bad weather.
4. Explore ways to hold diverse and enjoyable activities or camps to keep the nature center busy during summer months.
5. Importance of exploring partnerships with BYU, Utah State or UVU since Utah State seems to be a great partner with the botanical garden/house, etc.

Chris Keleher:

1. Partnerships and secure funding commitments.
2. Wetland boardwalk and bird tower.
3. Windows with views.
4. Research incorporated with education/outreach.
5. Efficient use of space, storage, LEED certification.

Reed Price:

1. We need to make sure the school districts are involved.
2. We need to try and find a successful company that would be willing to make a long-term commitment to finance the center
3. We need to have expectations and responsibilities spelled out for long term success
4. Volunteers are an integral part of successful field trip programs.
5. Creating a multi-use facility (weddings, etc) can help finance the operations.

Appendix 2 – Nature Center Survey Results

Utah Lake Nature Center Survey Results

The Utah Lake Commission has received a technical assistance grant from the National Park Service – Rivers, Trails, and Conservation Assistance Program (RTCA). Following are the compilation of answers from individuals and their respective organizations.

Survey Questions:

1. ***Please, give a general description of how your organization would utilize this type of facility.***

Responses:

- Facility could be used as a venue to present results of studies related to Utah Lake and Utah Valley, as a location where publications and data related to Utah Lake could be disseminated to the public, a place for researchers to meet and share/plan investigations, as a location where meteorological instrumentation could be installed in a secure, location near the lake, and as short-term base for research on Utah Lake where mobilization/demobilization and equipment installation/testing could accomplished during periods of active lake research.
- Utah Late Park would utilize a Nature Center as a point of contact for interpretation about Utah Lake, nature, cultural/historical, and current uses.
- Active transportation (trails), education, recreation, and access to wetlands and the lake.
- It would be used by Cub Packs, Scout Troops, and possibly Varsity Teams and Venturing Crews as a location for work on belt loops and merit badges on subjects such as environmental science, weather, fishing, geology and nature.
- Our committee is interested in preservation and use of Provo's natural resources, and we advise the Mayor and City Council on these issues. We have a general policy interest in the facility and its planning.
- I don't think the Utah Water Ski Club has any real need for such a facility with other options available but it would be nice to use.
- Teaching destination for several classes, especially Stream & Wetlands Ecology, Limnology, Ichthyology, etc. Research on a variety of topics such as, June Sucker survival, eutrophication, invasive species, etc.
- We would hope that it would provide educational opportunities that touched on water resources in Utah, how valuable they are, the importance of developing them to sustain all aspects of life and conserving water the water that we have. We would hope that this facility would assist our outreach efforts to share this message. We may want to use this facility in tours or conferences that we give to help people understand water development and conservation.
- Teaching several courses and performing front-line research on the lake.
- As a location for distributing information about June sucker and the Utah Lake Ecosystem and as a venue for interacting with the public. Ideally, it would also become a facility where those working on JSRIP funded research would be able to base some of their operations and conduct applicable studies.

2. ***Please, describe the type of facilities your organization would require such as: Classrooms, research facilities, offices, etc.***

Responses:

- These are suggestions based on experience at other facilities -- Presentation area with screen, 20-25 person capacity, Display area for posters, publications, etc., Secure storage yard for overnight parking of research vessels, Power and fresh water available in outside storage area, External pressure washer, Covered "carport" for temporary shelter while mobilizing/demobilizing equipment, Small garage area for equipment storage and deliveries
- Small "conference" room for people to sit down and review data, Small, secure "computer" equipment room with roof access to install meteorological monitoring equipment.
- Classroom, space for display if applicable).
- We desire interactive trails that will connect the Nature Center to "nature" (wetland areas, the lakeshore, interconnections with the future lakeshore trail, canoe launches, June Sucker breeding areas, bird watching facilities, etc.) Hopefully, your study will help us better evaluate our needs for classrooms and other facilities.
- A classroom or conference room that could be used for instruction. Most activities would take place outdoors.
- Our committee represents all Provo residents and recommends that the facility provide light, interesting instruction in the form of displays and video recordings about the lake and its ecosystem. A classroom to seat about 30 would be helpful. It should be not only attractive and entertaining, but also instructive for family recreation, tourists, and other visitors, including public school pupils and college students.
- Classroom/conference room.
- A conference room with access to computer and projector would be great. Also, if the facility is on or near the shore, a boat house type of facility with access to boats for research would be great.
- I would imagine that we would mostly use classroom or conference room types of facilities. We may be interested in research facilities for June sucker or water quality or even climate change.
- It would be wonderful to have one or two classrooms, one or two research labs (wet labs), a boat dock, a storage facility, access to the internet, and so forth.
- A large muti-purpose classroom. Wet lab for research. Large secure, parking area for research vehicles/watercraft. Storage area for field equipment.

3. ***Please, describe the potential occupancy of the facility, i.e. days, evenings, nights, weekends, number of people, months of the year, etc.***

Responses:

- Unknown. Research would only occur March – November. Presentations/meetings based on demand.
- For state park use, it would be six days a week (M-Sat) days, evenings, and nights. We usually host small (3-5 persons) to large (100-200) persons. This can occur year round as needed dictates.
- As a minimum, the facility should be able to accommodate daytime school field trips from elementary schools through college classes (classrooms, media center, research facilities, restrooms, etc.). It should also be open in evenings and weekends for the general public to participate.
- Evenings and weekends. 25-50+ people per week, spring, summer, fall. Probably less in winter.

- This is difficult to predict, but one would expect greater attendance April-October evenings and weekends. Utah Lake and Provo River are relatively undeveloped jewels of our Provo environment. School and college students would probably be most interested in daytime use of the classroom.
- One night a year.
- Hard to say…perhaps 50 people twice three days month during the spring and summer mostly during the day and possibly on weekends.
- We may need to reserve classrooms or conference rooms a few times a year. I would think that if we're involved in research facilities it would be a more weekly and year round use.
- We would use the facility during summer months mostly. My estimate is that we would teach perhaps 4 courses per year that would make use of the facility and do substantial (at least weekly) use during spring, summer and fall months.
- For research purposes the facility would primarily be used from April to October on weekdays from 6:30 to 6:00. The number of people using the facility each day would probably vary greatly (1 to 10).

4. ***Does your organization have funding available for any of the following: Land acquisition, design, construction, or ongoing O&M costs?***

Responses:

- No.
- State parks – may have funding need to see funding from Heritage Resources (Justina parsons-Bernstien. Utah Lake State Park could have the Nature Center on Department of Natural Resources Land within the park boundaries. Utah Lake State Park is a land and water conservation facility and a nature Center fits our Division's mission, enhances visitor experiences, and promotes education about Utah Lake.
- We have a $90,000 grant through MAG to study the best alignment for a future lakeshore trail in this area. Our study is tentatively scheduled to begin in July.
- NO.
- No, but we could assist in applying for grants and outreach to citizens.
- No.
- There are no funds specifically set aside for such an endeavor. However, I wouldn't rule it out. Most likely it would come through the Dean's office at the college level. I am not sure that department would choose to allocate funds in this direction…it would require a vote.
- We would probably be able to budget some money to help with the overall costs
- We could certainly help with design and construction.
- Yes. Land acquisition would probably have to be near one of our project areas (i.e.: easier for us to fund the purchase of land near the Provo River than near American Fork or Lindon).

5. ***Could your organization provide any public outreach information such as information, education, or facility staffing for educational programs? If so, what would be the target topics, target audience, and type of staffing?***

Responses:

- Yes. All of the above except for facility staff. We would be able to supply personnel to make presentations/teach, but would not be able to staff the facility. We can provide posters, reports, guidance, and ideas on Utah Lake geology, geophysics, hydrology, chemistry, tectonic history, along with Utah Valley hydrology, etc. Target audience anywhere from grade school through professionals.
- Yes, Utah Lake State Park can and will provide information, education and staffing for educational programs at a center. Our rangers wear many hats, but as time and safety permits, our staff will participate.
- As we engage our city administration in your study process, we should be able to answer this question better in the coming months.
- UNPC-BSA is a good source for volunteers to both teach and carry out projects of benefit to the lake, i.e. Eagle projects,
- Mike Mills could provide presentations on water cycles and conservation; George Handley could lecture and lead tours on Provo River, delta, and wetlands; Ginger Woolley and John Chamberlain could discuss the impact of canyon watersheds on the lake and the uses of local canyons. We also do have some limited ability to provide public outreach and help with communication to Provo City officials.
- The Utah Water Ski Club would be interested in educating the public about slalom course skiing and general lake etiquette in regards to boat wakes.
- Sounds like a great opportunity for student volunteers. Yes, definitely.
- I'm sure we would be happy to share any information we have that would be useful toward public outreach and education. At this time we don't have staff that would be available on any sort of a consistent schedule to help but probably could be available to come help on an occasion when there is an audience that is interested in any of our specialties'.
- By all means. We have a fine marketing department and would be performing work on the lake that would generate public interest.
- We would be willing to provide a variety of information/educational items, mainly involving the June sucker, shallow lake ecology, species conservation, and water conservation. Our target audience would be students from elementary age through college. Staff availability would likely be limited to presenting educational/informational programs to groups visiting the facility.

6. ***Additional information your group may want considered in this Nature Center.***

Responses:

- The Utah Museum of Natural History exhibit on Great Salt Lake might be able to provide some ideas on an outreach display for the facility.
- We suggest that you consider an underground stream profile chamber like the one the US Forest Service maintains at Taylor Creek Visitor Center near Lake Tahoe. It is fascinating, instructive and useful for some limited research.
- Not sure…need to give it some more thought.
- Our main focuses are water development and conservation and recovery of the June sucker.
- UVU is very excited about the possibility of this center. We will help in any way we can and would make good use of the facilities.

- The research component is an important part of the facility for our organization, as we see it generating additional interest in the lake and facilitating the ongoing research that our organization is interested in.