



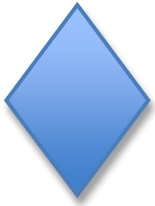
**Barlow Mountain Pool  
Sound Improvement Project**

**A Project of**

**Ridgefield Aquatic Club  
and  
RHS Athletics Department**

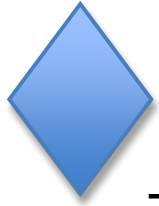
**With support of Ridgefield Parks and Recreation Department**

**November 2016**



## **SOUND FACTS:**

- When you combine loud activity, hard surfaces, a mass of water and a raucous crowd in a large space, you get an acoustic nightmare. Such is the case with Barlow Mountain Pool.**
- The facility, with its 30-foot ceilings, cement walls, tile floors, and 25M pool, causes excessive sound reverberation making the spoken word very difficult to understand, creating an environment that is uncomfortable at best and unsafe at worst.**
- Swim meets held at the facility are deafening with teams and spectators cheering.**
- While we have excellent staff running the programs at Barlow Mountain Pool, the poor acoustics in the facility impedes their ability to communicate effectively with program participants making it difficult to accommodate swim practice, instructions and competitions, or any program that combines music and aquatics.**



## **SOUND SOLUTIONS:**

**-AlphaEnviro PVC Acoustic Panels, by Acoustical Solutions, Inc., <https://AcousticalSolutions.com>, filled with sound-absorbing material wrapped in a washable, moisture resistant cover, hung from the ceiling.**



**-The average reverberation time at an indoor pool facility is 6 to 8 seconds at 500Hz (the center-of-speech frequency). Engineers have estimated the current sound reverberation at Barlow Mountain Pool to be 15.57 seconds at 500Hz.**

**-After treating the room with the panels, engineers estimate they can reduce that reverberation to an acceptable level of 3.03 seconds at 500Hz.**



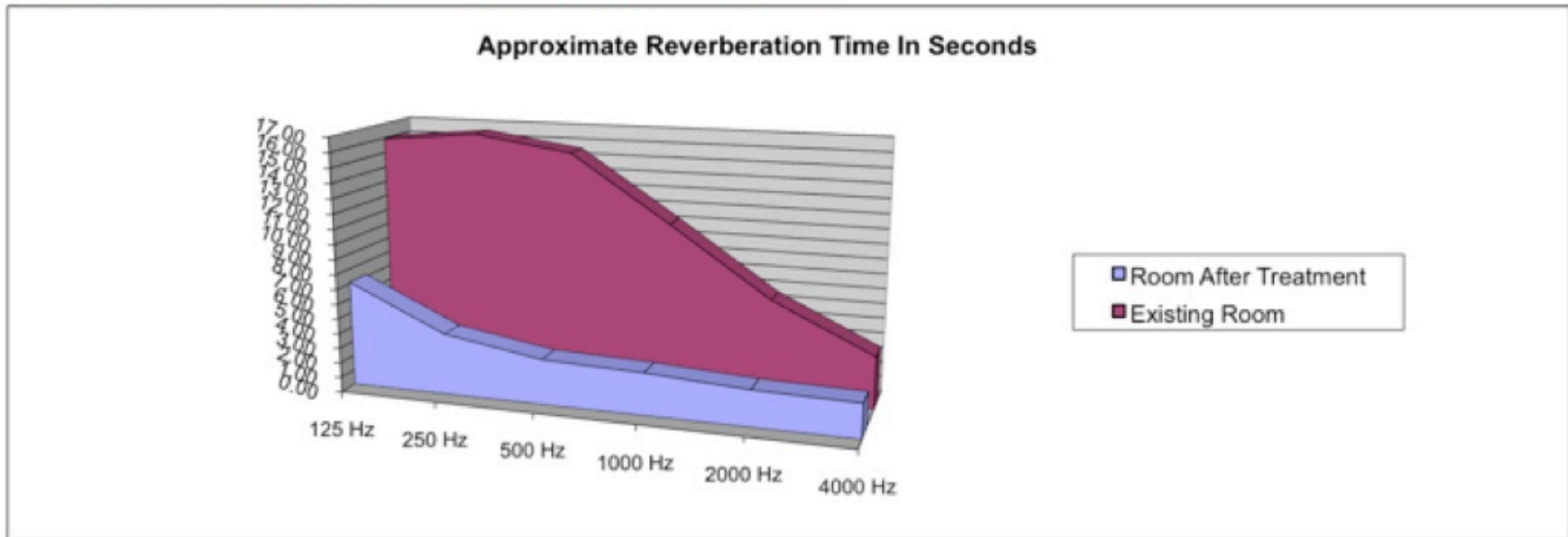
Client: RIDGEFIELD AQUATIC CLUB POOL/SANDRA SMITH

Job Name: POOL

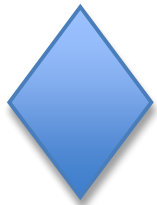
Location: RIDGEFIELD , CT

Room Info: 127X77X30

Product: 2" thick AlphaEnviro PVC Ceiling Baffles



	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	<b>RT60</b>
Existing Room	15.94	16.54	15.57	11.20	6.66	3.49	<b>12.49</b>
Room After Treatment	7.11	4.12	3.03	2.82	2.42	2.29	<b>3.10</b>

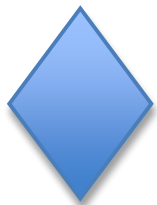


### **SOUND FINANCES:**

<b>-Total Project Cost (materials and labor)</b>	<b>\$31,000</b>
<b>-Funds Committed to Date*</b>	<b>\$18,129</b>
<b>-Funds Needed for Sound Improvement</b>	<b>\$12,871</b>

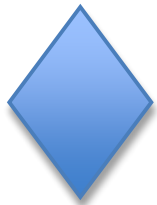
#### **\*Funds committed to date by:**

- Ridgefield Aquatic Club**
- RHS Athletic Advisory Council**
- RAC Members**
- RHS Boys Swim and Dive Booster Club**



### **SOUND TIMING:**

- Fundraising: November 1-January 31, 2017**
- Deposit for manufacturing the panels: February 2017**
- Installation of panels at Barlow Mountain Pool: April 3-April 7, 2017**



## **SOUND HELP!!**

**-Attend our Guest Bartender Night, featuring our own Emmanuel Lanzo, “Mixologist Extraodinaire” and his “Partner in Wine” Thammara Clemente, at Gallo Restaurant in Ridgefield on Thursday, December 1, 6-9pm. Watch for more information coming soon!!**

**-Participate in our 50/50 Raffle. Tickets will be sold November 28 through November 30 at practice and at the Guest Bartender Event. Tickets are \$10.**

**-Purchase Stop & Shop and Stew Leonard Grocery Cards! You buy a \$100 gift card, you use it to spend \$100 at the store. RAC earns \$5. Costs you NOTHING! All the proceeds earned on grocery cards from now thru January will support the Sound Improvement Project.**

**-Make a donation. Donations can be made by check payable to Ridgefield Aquatic Club, P.O. Box 256, Ridgefield, CT 06877 (or leave in the Kieran Smith folder in the pool lobby) OR Online at [www.racswimming.org](http://www.racswimming.org).**

***Ridgefield Aquatic Club is a 501c3 charitable organization and all donations are tax deductible as allowed by law.***