

SAGE Labs

St. Louis Westport Facility Expansion

8800 sq ft shell expansion

7000 sq ft – barrier space

1800 sq ft – lab and office addition

We had explored expanding this space with hard walled animal holding rooms and the cost was estimated at \$5.6 Million. We turned our focus toward utilizing bioBubbles to both lower cost and provide us the flexibility that we needed as a growing business.

The barrier facility consists of finished floors and ceilings and room for approximately 17 bioBubbles, spray down room from dock entrance, clean room, food and bedding room, and a technician office. The open space has been planned to hold bubbles of varies sizes ranging from the smallest at 124 x 120 x 84 up to 148 x 272 x 100 when fully occupied.

Cost breakdown is as follows:

-Construction and HVAC costs - \$940,000 – Already had an extra air handler and did not need to add additional boilers or chillers. Still have a fully redundant system for the animal spaces.

-Purchase of an initial 7 bubbles, 2 change out hoods, tables, air showers, installation, delivery \$257,000

-Edstrom Auto watering System for the bioBubbles – The majority of our animals are rats which made auto watering an essential component within our bubbles. We designed an ultrafiltration system with n individual rack flush system. All supply and return piping was installed for all purchased and planned bubbles. \$132,000 equipment/design, additional \$48,000 for installation

-Used Racks and Caging were purchased - \$140,000

- Tunnel Washer was added to our cage wash facility to assist in the added cages with the expansion - \$205,000

The price tag for our expansion utilizing bioBubbles, upgrading our auto watering system, adding a tunnel washer, expanding our lab, adding 5 offices and a conference room was just under \$2 Million.

- When we purchase additional bubbles the only cost other than the bubbles will be an additional \$1000/solenoid for each rack drop (3-7 drops/bubble depending on the size of the bubble).

Deb Knoerzer

Chief Operating Officer

SAGE Labs