

# PROJECT PROFILE

## TEXAS A&M UNIVERSITY MITCHELL PHYSICS BUILDING

### Atlantis Raintank Water Harvesting System

COLLEGE STATION, TEXAS

#### PROJECT BACKGROUND

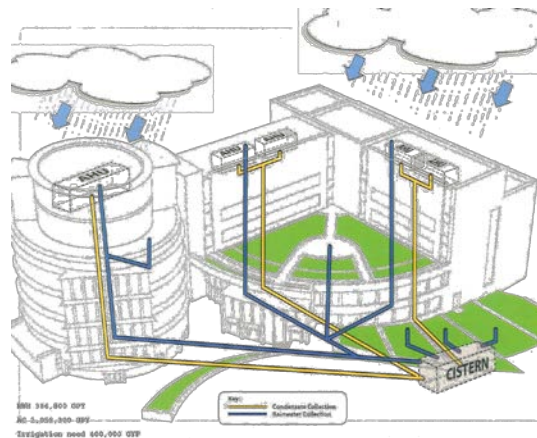
Vision 2020 is Texas A&M University's roadmap for attaining its quest to be recognized as a consensus "top 10" public university by the year 2020. In that spirit and since 1997, the University has drastically changed its landscape to become a school that is recognized by its updated, sustainable campus, complete with light rail, green roofs, and water harvesting systems. The Mitchell Physics Building was no exception.

#### THE BUSINESS CASE

Among the many commendable Texas A&M traits are the major advances it has made over the years in agricultural sciences. Early on, it was discovered that the potable water on campus had high salinity levels, hindering them from growing and irrigating many of the native plants in the region. Because all new buildings on campus would be built to the LEED standard, there were several points available for reducing potable water needs and for reducing the amount of rain water to leave the development. Harvesting rainwater and condensate from the HVAC system into the Atlantis Raintank would generate LEED points and solve their irrigation problem.

#### WHY MODULARITY MATTERS

Modular flexibility is often times underestimated when designing a rain water harvesting system. In the case of the Texas A&M Mitchell Physics Building no other system but Raintank would have worked. When the contractor reached the flow line of the system during excavation, he found two tie backs from the building basement that protruded into the footprint of the tank system. Raintank's modular flexibility allowed the contractor to work around the tie backs, something no other water harvesting system is capable of. Raintank's modular flexibility saved time and money.



The Atlantis Raintank water harvesting system at the Mitchell Physics Building at Texas A&M University Captures three times more condensate annually from the HVAC System than it does rain water from the roof top.



**Owner:** Texas A&M University  
**Architect:** Michael Graves & Associates  
**Engineer:** Walter P. Moore  
**Landscape Architect:** Clark Condon & Associates  
**Contractor:** Vaughn Construction  
**Site Contractor:** Garrett Mechanical  
**Harvested Volume:** 60,000 Gallons  
**Completion:** June 2008

#### About Raintank

The Atlantis Raintank System is a modular storage system that can be used for detention, rainwater harvesting, or ground water recharge. The Raintank's modular design and compact footprint makes it ideal and cost effective for all types of applications.



www.ecosvs.com  
1930 Aldine Western Rd  
Houston, Texas 77038  
832.456.1000



#### Credits Earned

SS Credit 6.1: Storm Water Design: Quantity Control  
SS Credit 6.2: Storm Water Design: Quality Control  
WE Credit 1.1: Water Efficient Landscaping: 50% Reduction  
WE Credit 1.2: Water Efficient Landscaping: 100% Reduction  
MR Credit 4.1: Recycled Content: 10%  
MR Credit 4.2: Recycled Content: 20%

# PROJECT PROFILE

## Raintank Water Harvesting System

200 Technology Way  
College Station, TX

**100%** Irrigation Reduction

**100%** Recycled Material

**100%** Green

## PROJECT TEAM

### Design Team

Civil Engineer

Walter P Moore

Landscape Architect

Clark Condon & Associates

### Construction Team

General Contractor

Vaughn Construction

Site Contractor

Garrett Mechanical



[www.ecosvs.com](http://www.ecosvs.com)

