

Haley's Run Remediation and Restoration Project



In Collaboration with the City of Akron and Other Partners, Lockheed Martin Turns Over Haley's Run Park to Local Community

Eleven-year-old Jerry Faries of Akron, Ohio, loves plants. The young botanist enjoys planting so much, his family approached Lockheed Martin and asked if Jerry could plant a Western Cedar tree on the public property the Corporation was restoring down the street from his house.



Lockheed Martin responded with a resounding "yes" and thanked Jerry for his contribution by inviting him to participate in the official ribbon-cutting and open house events when the restored property - now a park called Haley's Run - opened on June 30, 2010.

"With the changes, this is way better than it was," Jerry said of Haley's Run, which is close to the Airdock facility where Lockheed Martin manufactures lighter-than-air vehicles. "This land used to be polluted, but now it's cleaned up and people are using the trail.

I sat on a neighbor's hill and watched them make the changes.



I was excited to plant something here, because planting makes the world a better place."

Lockheed Martin assumed responsibility for the environmental cleanup of Haley's Ditch in Akron after solid particles containing polychlorinated biphenyls (PCBs) had been carried in rainwater from the Airdock.



After cleaning up the property, Lockheed Martin restored the ditch to a natural stream, created 1.02 acres of wetlands and developed a walking trail for community use.

"It has been nice to see the Corporation respond and make these improvements for the community," said John Nor-dine, U.S. Environmental Protection Agency project manager for the cleanup portion of the project. "I am sure the citizens will enjoy this trail."



More than 200 people, including community members, officials from the City of Akron, representatives from environmental agencies and conservation organizations, industry partners and Lockheed Martin employees, attended the two public events on

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June 30. A ribbon-cutting ceremony was held in the morning, and an afternoon open house provided community members with an opportunity to walk the trail, plant flowers along the trail and see displays about the restoration process.

“We are fortunate to have such good corporate stewardship as we see with Lockheed Martin,” said Akron Mayor Don Plusquellic. “I extend my sincerest thanks to Lockheed Martin for restoring the natural beauty of this natural resource for our community.”

Local resident George Perine was appreciative as well.

“My wife and I already have walked on the trail, and we appreciate what Lockheed Martin has done,” Perine said. “I really enjoy nature, and I think this is really beautiful. They did a fine job.”

Lockheed Martin partnered on the restoration with RiverWorks, a consortium that includes EnviroScience, which planned the environmental changes at the site and the hydraulic modifications that ensure the stream functions like a natural stream; GPD Engineering, which did civil engineering plans for the park and trail; and RiverReach Construction, which built the park based on the design.

As part of the project, the team restored the stream to its natural habitat, planted more than 1,000 trees and shrubs, and created the 0.6-mile trail. The restoration is environmentally beneficial, because it enhances the health of the Cuyahoga River Watershed, creates a natural habitat for wildlife, reduces the risk of flooding and erosion, and provides a beautiful space for the community.

“Lockheed Martin’s willingness to go above and beyond on this project shows its commitment to environmental stewardship,” said Shannon Carneal, restoration construction manager, RiverReach Construction. “It is a model project, because Lockheed Martin was committed to creating wetlands and a stream that will mature and be a viable natural environment for the long haul.”

Lockheed Martin completed the environmental cleanup in Fall 2009 and started construction of Haley’s Run when the cleanup was completed. Restoration was halted over the winter, then resumed in Spring 2010. The finishing touches were completed the day before the park opened to the public.

The Haley’s Run walking trail abuts the proposed Adam’s Run trail, which will connect to the Little Cuyahoga River and the Ohio and Erie Canal Towpath Trail.

“The opening of Haley’s Run is very exciting,” said Eddie Dengg, vice



president, Western Reserve Land Conservancy. “It provides a safe trail for kids walking to the local school and is a great place for families. Lockheed Martin has



taken a negative, which was the contaminated ditch, and turned it into a positive — this beautiful park that everyone can appreciate.”

David Gunnarson, Lockheed Martin project manager, said the Haley’s Run project was a prime example of what can happen when industry, government, community organizations and local residents work together. Today, the Corporation is working with the City of Akron, the Western Reserve Land Conservancy and Metroparks to finalize future ownership and management of the property.

“It has been tremendously rewarding to work with all of these partners to re-

turn this site back to the community as a public asset,” Gunnarson said. “I’ve been working in the remediation business for 30 years now, and I can tell you that for a variety

of reasons, it’s not very often that you can clean up a property and restore it to a park. But this project worked out that way, and it was the right thing to do.”



Creating a Foundation for Natural Ecological Recovery

When Joel Bingham was developing the ecological layout for Haley's Run, the restoration biologist had one goal in mind: creating a foundation that would encourage natural ecological recovery.



After studying the area and what would work best, he and his teammates from RiverWorks, a three-company consortium, identified critical environmental components for the new park, which also includes a walking trail. The components are:

A stream with a natural shape that includes bends and steps. The bends slow the water's flow, which reduces flooding and erosion. The steps include "riffles," shallow areas where water flows quickly, and "pools," deeper areas where water gathers before slowly moving onward. The Haley's Run stream replaces what used to be a straight-line ditch.



The floodplain, which is flat land near the water's edge that relieves the erosive power of the stream and filters out pollutants.

Wetlands, which handle stormwater when the stream reaches capacity.

Together, these three components offer a rich environment that is expected to attract a considerable amount of wildlife, including six or seven fish species; amphibians such as frogs, toads and, possibly, salamanders; and ducks, birds and migratory waterfowl.

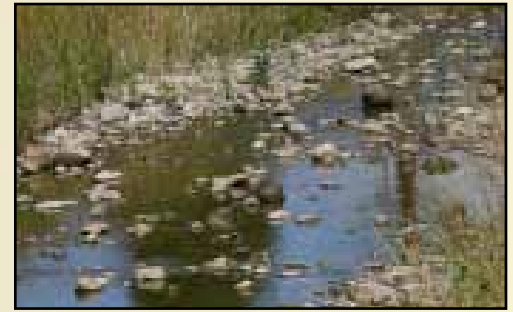
"Every detail — from the trees selected, to the shape of the stream, to the depth of the wetlands — makes a difference in the success of the ecological recovery," said Bingham, who works for EnviroScience, one of three companies in River-



Works. "The great thing is that time further improves these landscapes, because as plants grow and fill in, the landscape evolves and functions as a mature natural environment."

After conducting an environmental cleanup of the property, Lockheed Martin collaborated with RiverWorks and other partners to restore the site. Haley's Run includes a natural stream, 1.02 acres of wetlands and a 0.6-mile walking trail for community use.

In designing the site, Bingham and his teammates considered each area of the property and selected native species that



would grow best in that area — not just today, but for decades to come.

"Rocks, natural plant varieties, discarded trees laying flat in the water — these elements and many others were placed strategically to mimic what you'd find in nature," said Bingham's colleague Shannon Carneal, restoration construction manager for RiverReach Construction, another company in the consortium. The third RiverWorks company is GPD Engineering.

"When we started the restoration, nearly everything that was not natural had been removed," Carneal added. "The property will continue to evolve and change, just like it would in nature, and that's what will make it sustainable for many years to come."





Akron Business Owner Enjoys 'Special Gift' from Haley's Run

On the first day of restoration at the park now called Haley's Run, construction workers found a tiny, mouselike creature under an old storage trailer that was about to be demolished.



"The workers came in holding this little thing, with its umbilical cord still attached, and asked, 'What should we do with this?'" said Chuck Kover, owner of Marko CARSTAR Collision, a business at the border of the park on Archwood Avenue in Akron, Ohio. "We realized it was a kitten, so I took it home to care for it."

That was in October 2009. Kover and his wife, Eva, took the animal to their local veterinarian, who said the kitten was two days old and had a slim chance of surviving or living a healthy life.

The couple was given instructions for using a feeding tube, and initially fed the animal directly into the stomach every hour.



"We didn't think she'd make it, but now she's a wonderful, healthy little cat," Kover said, noting that she joins five other rescued animals in his home. "She was a very special gift from the park, so we named her Haley."

In her honor, on June 30, 2010, the day of the park's opening, Lockheed Martin project lead David Gunnarson presented Kover with a cat collar with the name, Haley, on it.



Southern end of Haley's Run taken on June 30, 2010

Before



After



End of Hobart Avenue looking north.

Before



After



Salem Avenue easement east of Haley's Run looking north.

Before



After



South end of the Sieberling Street culvert.

Before



After



Salem Avenue at Landon Street looking south.

What's New at Haley's Run

Pine trees
77

Deciduous trees
375

Shrubs
625

Topsoil
5,600 cubic yards

Large stones
1,050 tons

River stones
1,300 tons

Fill dirt
7,200 tons

Gravel
1,850 tons

Trail
3,108 feet
(0.6 miles)

Granite Curbstone Finds New Life as a Bench

During the environmental cleanup and restoration of the property that's now Haley's Run, the Lockheed Martin team found many items that weren't there naturally — including sofas, bedsprings and tires.

Among the items was a large, granite curbstone. Toward the end of the restoration project, the teammates came up with an idea: let's use the curbstone as the seat of a bench.

They constructed a beautiful bench with the curbstone as the seat and two large stones as supporting legs. Today, the bench is positioned next to the trail near the southern end of the park.

“We were glad we were able to reuse the stone rather than burying it or throwing it away,” said David Gunnarson, Lockheed Martin project lead. “It's a great example of minimizing waste through re-use.”



Check out www.haleysrun.com to see all photos from the event



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