

Horace R. Collins Laboratory and Sample Repository Fact Sheet

The Basics

- Open to the public from **8 A.M. to 5 P.M. daily**.
- Use of core repository and laboratories by appointment only.
- Guided tours available, if scheduled with facility manager.
- Home of the Ohio Seismic Network (OhioSeis), the Lake Erie Geology Data Center, and the State of Ohio Core and Sample Repository.
- Facility features 38,109 sq ft of floor space, including labs and offices; conference room; OhioSeis station; and the core/sample repository and publications storage warehouse, which totals 18,771 sq ft.
- Home of **15 major collections of geologic samples and data**, including:
 - 54,009 aerial photographs flown from 1949 to 1979.
 - 8,986 samples of Lake Erie shoreline and bottom sediment.
 - 8,650 samples of unconsolidated glacial sediment.
 - 6,205 seismogram tracings recording earthquakes.
 - 4,775 well sample cuttings suites.
 - 3,428 paper strip logs from cores, oil & gas cuttings, and measured stratigraphic sections. Many strip logs are not included in Geological Survey databases because they lack latitude/longitude or Ohio coordinate system coordinates.
 - 1,803 paper strip logs from cores, oil & gas cuttings, and measured stratigraphic sections containing coordinate data.
 - 950 rock cores equaling over 55 miles when laid end to end.
 - 670 well cuttings strip logs.
 - 199 oil samples from Ohio's oil- and gas-producing horizons.
 - Miscellaneous smaller collections of side wall cores, thin sections, sand and gravel investigations, Ohio River engineering boring records, environmental impact studies, and historical documents.

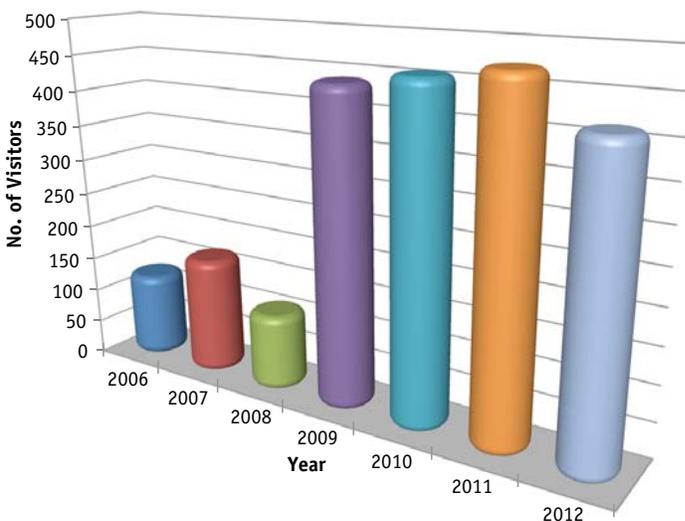


Who uses the HRC Laboratory and Sample Repository?

The HRC conference room averages about **2,000 users per year** from federal, state, and local government agencies and selected local non-profit groups working in the natural resources. Other users include:

- Geologists and geology professors and students.
- Engineers and geotechnical professionals.
- Federal, State of Ohio, and county officials and employees.
- United States Coast Guard.
- K-12 students and teachers.
- Home school groups.
- Boy and Girl Scouts.
- Ohio citizens.

Visitors and Geologists using
HRC Laboratory and Sample Repository



Partnering with the Public and Industry

- The Division of Geological Survey assists the oil-and-gas industry in studying the geology of the **Utica/Point Pleasant/Marcellus Shale Play** by providing geologic data and samples from throughout the state. Here is a summary of the samples analyzed as of April 30, 2012.
 - Total wells with cuttings sampled – 292
Total samples analyzed – 4,808
 - Total cores examined and sampled – 21
Total samples analyzed – 864Results from work are returned to the Geological Survey and made available to Ohio citizens after a confidentiality period.
- The Division of Geological Survey is cooperating with Ohio State University, Subsurface Energy Materials Characterization and Analysis Laboratory to provide core sample and geologic assistance with ongoing research projects associated with the Utica Shale and **carbon sequestration studies**.
- Kent State University, Ohio State University, Wright State University, University of Cincinnati, Ohio Dominican College, and Sinclair Community College utilize the HRC for tours and geologic workshops as part of **geology and earth science education** courses.
- The Division of Geological Survey provides geologic education and workshops for the Ohio State University Extension - Ohio Certified Volunteer Naturalist Program.



Historic Facts

- Facility named after Ohio's Tenth State Geologist.
- Dedicated on October 12, 1999.



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