

# SABR News

A Publication for the Brownfield Interested Party List

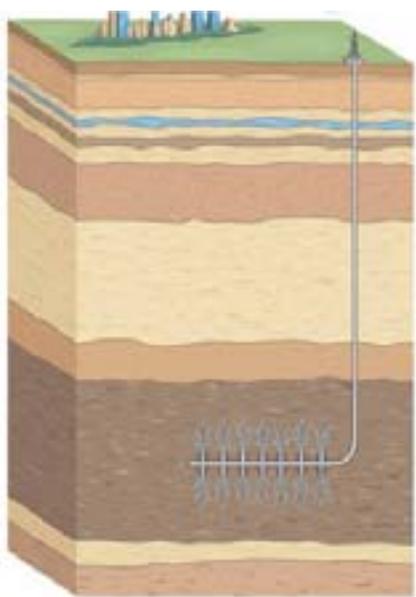
March 2012

## Marcellus/Utica Shale Gas Drilling, Certified Laboratories, PDHUs and You

Drilling for natural gas in the Marcellus and Utica shale deposits has become increasingly common in Ohio and many questions have been raised as to their regulatory status and potential environmental impacts. Although there can be environmental issues associated with drilling into these shale gas deposits, Ohio EPA does not have regulatory authority over the permitting, drilling and production of these resources.

The Ohio Department of Natural Resources (ODNR) is responsible for regulating these activities. Modern oil and gas drilling is a closely monitored process with regulations in place to protect underground sources of drinking water during and after the drilling process. The chance of release to soil and ground water is minimal and if they do occur are most often within a few hundred feet of the drill site. They are usually caused by casing failures and poor cement jobs that allow fluids near the surface to break out of the well to pollute ground water, above-ground spills or the mishandling of wastewater. In the event of any release, ODNR consults with Ohio EPA's emergency response program and/or the Division of Drinking and Ground Water.

A number of CL and CP-related questions have been posed to DERR in relation to these drilling activities and the VAP. Here are some of the most common questions.



**Q** Does the VAP certify laboratories for testing ground water samples for property owners at it relates to Marcellus shale drilling?

**A** No. Laboratory certification under the VAP only pertains to demonstrating that applicable standards have been met for a VAP assessment and cleanup conducted pursuant to ORC 3745 and OAC Chapter 3745-300. VAP does not have the authority to certify laboratories for any other environmental program. NELAP certification is included in the *Recommendations for Drinking Water Well Sampling before Oil and Gas Drilling* fact sheet.

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**We're on the Web!**

[www.epa.ohio.gov/derr/](http://www.epa.ohio.gov/derr/)

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## Marcellus/Utica Shale Gas Drilling, Certified Laboratories, PDHUs and You continued from page 1

**Q** Can our laboratory also do VAP work if we have NELAP certification?

**A** No. Laboratories must follow the requirements outlined in OAC Rule 3745-300-04 to become certified as a VAP-certified Laboratory. Ohio EPA does not have any reciprocal agreement with other states or programs to accept their certifications in lieu of meeting VAP certification requirements.

**Q** Do shale gas drilling courses qualify for CP PDHUs?

**A** Many seminars and conferences are being presented on this subject. Some of these seminars and conferences offer information for CPs to maintain, improve or expand skills and knowledge relevant to the investigation, assessment or remediation of hazardous substances or petroleum, while many do not.

We are using a basic guideline to determine whether or not presentations relating to shale gas qualify for PDHU credit. If the bulk of the presentation is geared to instruct participants on how to consider the impact and/or remediation of COC releases to the environment (i.e. environmental impacts from oil and gas drilling) then PDHU credit is applicable. Examples are courses that cover impacts or potential impacts to soils, ground water or other environmental media as a result of releases related to these activities.

Any presentation that covers the shale gas topic from a different standpoint would not qualify for PDHU credit for VAP CPs. A few examples of presentations that would not qualify for PDHU credit include: the promises of shale gas as an energy source; the economic impacts related to shale gas or oil; understanding formations in order to improve recovery of shale gas or oil; courses related to the drilling techniques and procedures for extracting natural gas or oil; or other non-environmentally related impacts of drilling.

## Ground Water Training

The Voluntary Action Program, in conjunction with the Division of Drinking and Ground Water, will conduct half-day ground water training in May and June 2012. The focus will be the Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring (TGM) Chapters 8 (monitoring well development) and 10 (ground water sampling). Proper well development is often overlooked during site investigations. The training will also focus on ground water sample turbidity, the use of peristaltic pumps and passive ground water sampling techniques.

The training will provide attendees an opportunity to review the Agency's sampling guidance with Agency staff who were involved in its development, including updates to the chapters. In addition to a lecture format, there will be some demonstration videos and possibly a live demonstration. Registration will begin in April. Contact Jeff Martin at (614) 836-8820 with any questions.



## Clean Ohio Council Awards More than \$23 Million in Grant Funds in Round 11

The Ohio Department of Development (ODOD) and Ohio EPA recently concluded the Clean Ohio Revitalization Fund's (CORF) eleventh grant round competition. On Nov. 18, 2011, the Clean Ohio Council awarded 12 Ohio communities cleanup and revitalization grants ranging from \$662,992 to \$3 million, for a total of \$23,364,252.



The grant funds will be used to clean up, acquire and improve infrastructure on and around brownfield sites throughout the state and are expected to create and retain 579 jobs. The Council also awarded three sustainability pilot track grants totaling \$4,151, 102 for cleanup and waterfront or signature park redevelopment.

### Cleanup and Revitalization Fund Projects

<i>Community</i>	<i>Project</i>	<i>CORF Grant</i>
City of Akron	Former Goodyear Powerhouse property	\$2,953,196
City of Cincinnati	Calmego West Expansion project	\$662,992
City of Cleveland	Miceli-Lograsso Development Co. III Expansion project	\$2,999,941
City of Columbus	Former Timken Site	\$3,000,000
Cuyahoga County	Viking Hall Block property	\$2,000,000
City of Dayton	Goodwill Easter Seals Project	\$2,198,345
City of Kent	800 Mogadore Road project	\$1,342,210
City of Norwood	Former American Laundry property	\$2,489,574
City of Sandusky	Former Apex Manufacturing property	\$1,094,089
City of Toledo	Plabell Rubber property	\$865,700
City of Xenia	Former Hooven & Allison Cordage Co. property	\$1,982,787
City of Youngstown	Former Wean United Facility	\$1,775,418

### Sustainability Pilot Grant Projects

<i>Community</i>	<i>Project</i>	<i>CORF Pilot Grant</i>
Hamilton County	Lick Run-South Fairmount Neighborhood	\$1,246,740
Miami County	Piqua Power Plant Waterfront Redevelopment	\$1,404,362
City of Toledo	UpTown Park	\$1,500,000

## ASTM Phase I vs. VAP Phase I – Is There Really a Difference?

The Phase 1 property assessment is the standard tool used at the beginning of most environmental investigations. In Ohio the two most common standards communities or volunteers use are: 1) ASTM E1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or 2) OAC Rule 3745-300-06 for Phase I Property Assessments for the Voluntary Action Program.

Both Phase I assessments provide for a comprehensive historical records search, on-site visual observations and site history based on interviews to gather and document the current or historical use of petroleum and hazardous substances and identify known or potential release areas. However, the requirements of each Phase I assessment can be different and can sometimes result in different conclusions or outcomes due to the different requirements contained within each standard.

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## ASTM Phase I vs. VAP Phase I – Is There Really a Difference? continued from page 3

An updated VAP Technical Guidance Compendium (TGC) document highlighting the differences between the two standards is now available at [www.epa.ohio.gov/portals/30/vap/tgc/VA30006-11-001.pdf](http://www.epa.ohio.gov/portals/30/vap/tgc/VA30006-11-001.pdf). This updated TGC provides a more detailed comparison of the requirements between the two standards than the previous TGC document. The document discusses reasons for the differences and presents a table summarizing important differences.

A Phase I assessment conducted to meet both set of requirements would have to ensure that the various requirements of both standards are met. This is often not difficult because many requirements from the two standards are more similar than they are different, but a good understanding of the differences is needed to ensure that requirements of both standards are met. Even if you are not interested in meeting both sets of standards for a single investigation, the comparison provided in the document is useful for individuals accustomed to working under one standard but needing to comply with the other standard.

## Ironton Riverfront Redevelopment

The City of Ironton received \$1,581,330 from the Clean Ohio Revitalization Fund to conduct demolition and remediation activities at the Ironton Riverfront Development property, located in the 800 block of North 2nd Street. The City of Ironton, the Ironton Port Authority and the Ironton-Lawrence County Community Action Organization are planning to redevelop the location into a public park with a boat launch, bike paths and walking trails, as well as build a mixed-use building for retail, commercial and residential uses. The funds will be used to remediate impacted soil, remove asbestos and demolish existing building foundations.



The city's riverfront is used by local resident but the boat dock is often avoided because of its poor condition. Concerts were once held on the boat dock similar to Summer Motion in Ashland, KY, the only surviving event from the now defunct Tri-State Fair and Regatta, which once included festivals in Ironton, Ashland and Huntington. The demise of the regatta and Ironton's economic difficulties hastened the decline of the riverfront and downtown areas.

Development began in October 2007 when the Ironton Port Authority purchased four acres that sat in the middle of 10 acres the city already owned. Remediation on the riverfront began with an assessment of the historic use of the land along the Ohio River, going back to its use as the site for a blast furnace.

Based on the assessment of potential contaminants, the city spent \$280,000 on environmental sampling. Five feet of contaminated soil will be removed from a five-acre section downriver of the existing boat ramp and replaced with uncontaminated soil. Excavation began in November 2011 and should be completed this summer.

The city has already received a \$100,000 Natureworks grant to pay for the trails and is seeking a grant from the U.S. Army Corps of Engineers for an erosion project. The bike/walking trail will go from the Center Street boat ramp west to Storms Creek.

- [www.development.ohio.gov/newsroom/2011PR/June/8.htm](http://www.development.ohio.gov/newsroom/2011PR/June/8.htm), June 29, 2011
- <http://dailyindependent.com/editorials/x66810829/Clean-dirt>  
Work begins on restoration of the riverfront in Ironton, July 13, 2011
- [www.herald-dispatch.com/news/ohio/x2066634/Ironton-gets-1-5M-for-development-project](http://www.herald-dispatch.com/news/ohio/x2066634/Ironton-gets-1-5M-for-development-project)  
(Malloy, D.E.) Ironton gets \$1.5M for development project, June 30, 2011
- [www.irontontribune.com/2011/06/30/city-county-net-clean-ohio-funds/](http://www.irontontribune.com/2011/06/30/city-county-net-clean-ohio-funds/)  
City, county net Clean Ohio funds, June 30, 2011
- [www.irontontribune.com/2011/11/23/riverfront-project-begins/](http://www.irontontribune.com/2011/11/23/riverfront-project-begins/)  
(Moore, T.) Riverfront project begins, Nov. 23, 2011
- [www.irontontribune.com/2011/10/26/ironton-opens-bids-for-riverfront-revitalization/](http://www.irontontribune.com/2011/10/26/ironton-opens-bids-for-riverfront-revitalization/), October

## Ohio Brownfield Conference 2012 – Update

Registration for the Ohio Brownfield Conference 2012 is now open for both attendees and exhibitors. The conference is May 23 — 24 at the Columbus Convention Center. An agenda is available on the conference website at [www.epa.ohio.gov/derr/Brownfield\\_Conference2012.aspx](http://www.epa.ohio.gov/derr/Brownfield_Conference2012.aspx). We are pleased with the quality of presentation submittals for this year's conference and believe there will be something to please every attendee. Among some of the offerings that will be available during the conference are:

- A training session focused on how to effectively write proposals for brownfield grants.
- A presentation on how to maximize the economic impact and minimize the risks and liabilities for your brownfield redevelopment project.
- A case study of a successful green remediation project that addressed ground water contaminated with chlorinated ethenes using an experimental wetland.
- A demonstration of how effective communications streamlined the cleanup of a manufactured gas plant.
- A discussion of innovative waterfront brownfield transactions.
- A case study focusing on successful closure of a DNAPL site.
- A presentation on how to successfully develop brownfields as electricity producing solar farms.
- A session on how to redevelop without demolition.

We are also excited to have Jay Williams, executive director of the Office of Recovery for Auto Communities and Workers and former Mayor of Youngstown, Ohio, as a keynote speaker on the first day of the conference. Director Williams will discuss the work his office does to help cities that have been hit hard by the auto bankruptcy crisis recover and bring new and sustainable businesses and job growth to their community.

If you haven't already, register soon for the Ohio Brownfield Conference 2012. We don't think you'll be disappointed!

### Ohio Brownfield Conference Sessions Approved for PDHUs

May 23, 2012 - May 24, 2012

Columbus Convention Center

400 North High Street

Columbus, OH 43215

PDHUs: 13 max, if only PDHU-qualified sessions listed below are attended.

Cost - Prior to April 22, 2012: Business/Industry — \$165, Government, Non-profits, Students — \$110

After April 22, 2012: Business/Industry — \$180, Government, Non-profits, Students — \$125

[www.epa.ohio.gov/derr/Brownfield\\_Conference2012.aspx](http://www.epa.ohio.gov/derr/Brownfield_Conference2012.aspx)

#### Monday

8:45 a.m. — 10:15 a.m. Plenary Session — Ballroom 4

10:30 a.m. — 11:25 a.m. Breakout Sessions — Choose One

Phytoremediation and Bioremediation on Brownfields — Room E170

The Interstate Technology & Regulatory Council's Framework for Green and Sustainable Remediation — Room E172

Risk Assessment Training — Room E151

11:35 a.m. — 12:05 p.m. Breakout Sessions — Choose One

Role of an O&M Plan and O&M Agreement relating to a Future Remedy — Room E170

Risk Assessment Training — Room E151

1:15 p.m. — 2:15 p.m. Breakout Sessions — Choose One

Vapor Intrusion Mitigation to Allow Reuse of a Large Manufacturing Plant — Room E170

ASTM AAI vs. VAP Phase I — Room E161

Taking sites through VAP Grant Technical Assistance — Room E171

Risk Assessment Training — Room E151

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**Ohio Brownfield Conference Sessions Approved for PDHUs (continued)**

- 2:25 p.m. — 3:20 p.m. Breakout Sessions — Choose One  
Expedited In-Situ Hydraulic Oil LNAPL Removal Using Biosolvents followed by Expedited Petroleum Free Product Recovery Removal Using Surfactants — Room E170  
Historical Research Tools for Brownfield Investigations — Room E161  
U.S. EPA's Integrated Municipal Planning Guidance: Brownfields and Storm water in Practice — Room E172
- 3:50 p.m. — 4:45 p.m. Breakout Sessions — Choose One  
Green & Sustainable Remediation in Ground Water Contaminated with Chlorinated Room Ethenes in an Experimental Wetland — Room E170  
Flats East Development Update: Post NFA Remedy during Construction followed by How Effective Communication Streamlined MGP Cleanup — Room E171  
Changing the Mindset on Dredged Sediment: Beyond Brownfields to Beneficial Use — Room E172  
NFA Roundtable Session — Room E151

**Tuesday**

- 8:45 a.m. — 10 a.m. Plenary Session — Ballroom 4
- 10:10 a.m. — 11:05 a.m. Breakout Sessions — Choose One  
Rapid Sub-Slab Soil Gas Sampling for Finding Source followed by Cold Spray Applied (EVOH) Geomembrane in Brownfield — Room E170  
U.S. EPA Region 5 Superfund Greener Cleanup Strategy — Room E172
- 11:20 a.m. — 12:15 p.m. Breakout Sessions  
Permeable Reactive Barriers for Metals in Ground Water — Room E170
- 1:15 p.m. — 1:45 p.m. Breakout Sessions:  
Electrical Resistance Heating (ERH) Remediation of PCE — Room E170  
VAP does Petro: New Initiatives for BUSTR Sites — Room E161  
Cuyahoga County Background Soil Determination and Case Study Applications — Room E172
- 1:55 p.m. — 2:25 p.m. Breakout Sessions — Choose One  
Use of an Alternate Regulatory Mechanism and Results-Based Approaches for Site Cleanup — Room E170  
Growing on Previously Used Sites: Best Management Practices — Room E172
- 2:40 p.m. — 3:40 p.m. Breakout Sessions — Choose One  
Where there is a will, there is a way. The Howard Paper Story (2:40 p.m. — 3:10 p.m.) — Room E170  
Redevelopment as a Moving Target: How Remedies Change with Development Plans — Room E161
- 3:50 p.m. — 4:20 p.m. Breakout Sessions — Choose One  
What's New in the VAP (3:20 p.m. — 4:20 p.m.) — Room E170  
Stabilizing a Site in the Wake of an Unfinished Development — Room E171  
Rescuing a Widely Used Municipal Park — Room E172

## Refiling of VAP Certified Professional Rule

After further review by DERR and Legal staff since the original Certified Professional rule filing, several revisions have been made to OAC 3745-300-05. The key revision was to revert back to a one-year certification period rather than the three-year period as proposed in the original filing. In particular, the proposed change will avoid issues surrounding invoicing for annual fees and developing a system for decertifying for non-payment of fees, which turned out to be more complex than anticipated and will be revisited at the five-year rule review. However, we are still reducing the number of PDHUs that CPs must document per year (from 24 to 12 PDHUs) to maintain certification; this brings the requirement in line with other professional certification programs. In addition, we are maintaining the removal of “carryover” PDHUs and we are removing the ability for certified professionals to receive additional credit for PDHUs for presenting the same course for which they already received credit.

The chart below outlines at what point in their certification period CPs are required to meet the 24 vs. 12 hour PDHU requirement for recertification:

Once the rule has been final filed and an effective date established CPs will be contacted individually to let them know about their recertification status. If you have questions about recertification requirements, contact Ildi Pallos at (614) 644-2086 or Kevin Shoemaker at (614) 644-2316.

Certification period ends prior to new rule's effective date.	Complete application submitted 45-90 days prior to certificate's expiration date (i.e., auto-renewal) and prior to rule's effective date.	24 PDHUs required, can carry over hours.
	Complete application submitted prior to rule's effective date (with or without lapse in certification period).	24 PDHUs required, can carry over hours.
	Complete application submitted after rule's effective date.	No carryover hours; only need 12 PDHUs.
Certification period ends after new rule's effective date.	Complete application submitted 45-90 days prior to certificate's expiration date (i.e., auto-renewal) and prior to rule's effective date.	24 PDHUs required, can carry over hours.
	Complete application submitted after the 45-90 auto-renewal date and after rule's effective date.	No carryover hours; only need 12 PDHUs.
	Complete application submitted after rule's effective date (and certification has lapsed).	No carryover hours; only need 12 PDHUs.

## Training Update: PDHU-qualified Courses for VAP Certified Professionals

Material covered, information provided and any opinions expressed in courses approved for PDHUs do not supercede Voluntary Action Program statutory language, rule requirements or technical reviews provided by Ohio EPA staff.

**NOTE: Be sure to review the Ohio Brownfield Conference Sessions Approved for PDHUs on page 5.**

### NARPM Presents...Institutional Controls

April 4, 2012, 1 p.m. — 3 p.m. EDT  
Internet Seminar  
PDHUs: 2  
Cost: Free  
<http://clu-in.org/live>

### Integrated DNAPL Site Strategy

April 5, 2012, 11 a.m. — 1:15 p.m. EDT  
Internet Seminar  
PDHUs: 2.25  
Cost: Free  
<http://clu-in.org/live>

### Permeable Reactive Barrier: Technology Update

April 10, 2012, 2 p.m. — 4:15 p.m. EDT  
Internet Seminar  
PDHUs: 2.25  
Cost: Free  
<http://clu-in.org/live>

### Green & Sustainable Remediation

April 26, 2012, 11 a.m. — 1:15 p.m. EDT  
Internet Seminar  
PDHUs: 2.25  
Cost: Free  
<http://clu-in.org/live>

### Introduction to Groundwater Investigations

May 15, 2012 — May 17, 2012  
Department of Environmental Protection  
400 Market St.  
Harrisburg, PA 17105  
PDHUs: 22  
Cost: Personnel from U.S. EPA, other Federal agencies, Tribes and State and local government, university staff, community HAZMAT teams and students — Free. Personnel not directly employed by a government agency (e.g. private industry, contractor, or unemployed) — \$400  
Phone: (513) 251-7669  
Fax: (513) 251-4137  
[ertp-registrar@ttnus.com](mailto:ertp-registrar@ttnus.com)

### Sampling for Hazardous Materials

May 22, 2012 — May 24, 2012  
UT Dept. of Environmental Quality  
195 North 1950 West  
Salt Lake City, UT 84116  
PDHUs: 1.8  
Cost: Personnel from U.S. EPA, other Federal agencies, Tribes and State and local government, university staff, community HAZMAT teams and students — Free. Personnel not directly employed by a government agency (e.g. private industry, contractor, or unemployed) — \$500  
Phone: (513) 251-7669  
Fax: (513) 251-4137  
[ertp-registrar@ttnus.com](mailto:ertp-registrar@ttnus.com)

### Environmental Remediation Technologies

June 26, 2012 — June 28, 2012  
U.S. EPA — Region 2  
290 Broadway  
New York, NY 10007-1866  
PDHUs: 19  
Cost: Personnel from U.S. EPA, other Federal agencies, Tribes and State and local government, university staff, community HAZMAT teams and students — Free.  
Personnel not directly employed by a government agency (e.g. private industry, contractor, or unemployed) — \$400  
More information and registration  
Phone: (513) 251-7669  
Fax: (513) 251-4137  
[ertp-registrar@ttnus.com](mailto:ertp-registrar@ttnus.com)

## SABR News

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