## Delaware Riverkeeper Network

Please find attached a resolution from Morrisville, PA to enact a complete and permanent ban on hydraulic fracturing.

## MORRISVILLE BOROUGH BUCKS COUNTY, PENNSYLVANIA

RESOLUTION NO. <u>985</u>

WHEREAS, a fundamental purpose of government is to protect the health, safety, and welfare of citizens; and

WHEREAS, Article I, Section 27 of the Pennsylvania Constitution affirms that, "The people have a right to clean air, pure water, and to the preservation of the natural, scenic, historic and esthetic values of the environment"; and

WHEREAS, Article I, Section 27 further declares, "Pennsylvania's public natural resources are the common property of all the people, including generations yet to come. As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all the people."; and

WHEREAS, in the most recent statistical analysis of the body of scientific literature by the Concerned Health Professionals of New York and Physicians for Social Responsibility, 685 peer reviewed papers examining gas drilling were reviewed, and the overwhelming majority of studies found evidence of or potential adverse impacts on water, air, and human health<sup>1</sup>; and

WHEREAS, the negative impacts of shale gas development are documented by Pennsylvania Department of Environmental Protection's accounting of 284 private water well contamination cases that were determined by the agency to have been caused by oil and gas operations through 2016<sup>2</sup>; and

WHEREAS, the EPA's newly released hydraulic fracturing study provides scientific evidence that hydraulic fracturing activities can impact drinking water resources and includes water impacts from shale gas in the Pennsylvania community of Dimock<sup>3</sup>; and

WHEREAS, there is significant evidence that shale gas development has an adverse effect on public health, property interests, agriculture and on our air, water, and land<sup>4</sup>; and

Delaware Riverkeeper Network, "Unsafe and Unsustainable,"

http://www.delawareriverkeeper.org/Documents/DRN Report Unsafe+Unsustainable fr.pdf

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<sup>&</sup>lt;sup>1</sup> PSE Healthy Energy Library, <a href="https://www.zotero.org/groups/pse">https://www.zotero.org/groups/pse</a> study citation database/items; See Compendium, <a href="https://concernedhealthny.org/compendium/">https://concernedhealthny.org/compendium/</a>

<sup>&</sup>lt;sup>2</sup>http://files.dep.state.pa.us/OilGas/BOGM/BOGMPortalFiles/OilGasReports/Determination Letters/Regional Determination Letters.pdf accessed by DRN 12.27.2016

http://publicherald.org/to-hell-with-us-records-of-misconduct-found-inside-pa-drinking-water-investigations/http://publicherald.org/hidden-data-suggests-fracking-created-widespread-systemic-impact-in-pennsylvania/

<sup>&</sup>lt;sup>3</sup> Environmental Protection Agency (EPA). 2015. Assessment of the Potential Impacts of Hydraulic Fracturing for Oil and Gas on Drinking Water Resources – External Review Draft. June 2015. Available at: www.epa.gov/hfstudy; Hein 2012, p. 2. <a href="https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990">https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990</a>

<sup>&</sup>lt;sup>4</sup> Delaware Riverkeeper Network, "Unsafe and Unsustainable,"

WHEREAS, neither Pennsylvania nor the Delaware River Basin Commission has conducted a comprehensive assessment of the cumulative and long-term impacts of hydraulic fracturing and related shale gas development activities on the water resources of the Delaware River Basin; and

WHEREAS, the absence of such an assessment prevents the appropriate management of and avoidance of degradation from the harms associated with shale gas development, including risks to public health, property values and the clean air and water upon which all citizens and businesses depend<sup>5</sup>; and

WHEREAS, the shale gas industry has received unprecedented exemptions from our nation's most important environmental and public health laws including the Safe Drinking Water Act, Clean Air Act, and the Clean Water Act; and

**WHEREAS,** after exhaustive study, New York and Maryland have banned high-volume hydraulic fracturing in their states<sup>6</sup>; and

WHEREAS, a vitally important cumulative impact is the climate effects of shale development in the Watershed. Natural gas is primarily methane, a greenhouse gas 86 times

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<sup>&</sup>lt;sup>5</sup> For examples of risks not considered, see E.L. Rowan, et al., Radium Content of Oil- and Gas-Field Produced Waters in the Northern Appalachian Basin (USA): Summary and Discussion of Data, United States Geological Survey ("USGS") Scientific Investigations Report 2011-5135 (2011); "NIOSH Field Effort to Assess Chemical Exposure Risks to Gas and Oil Workers," http://www.cdc.gov/niosh/docs/2010-130/pdfs/2010-130.pdf; "CDC scientist: tests needed on gas drilling impact," Wall Street Journal, January 4, 2012, http://online.wsj.com/article/AP8338b702930849f49d22a5d96b7d1b2d.html; OSHA-NIOSH, "Worker Hazard Alert: Worker Exposure to Silica during Hydraulic Fracturing," http://www.osha.gov/dts/hazardalerts/hydraulic frac hazard alert.pdf ("Recent NIOSH field studies identified overexposure to airborne silica as a health hazard to workers."); E.T. Slonecker, et al., Landscape Consequences of Natural Gas Extraction in Bradford and Washington Counties, Pennsylvania, 2004-2010, USGS Open File Report 2012-1154 (2012); E.T. Slonecker, et al., Landscape Consequences of Natural Gas Extraction in Allegheny and Susquehanna Counties, Pennsylvania, 2004-2010; USGS Open File Report 2013-1025 (2012); P.J. Drohan, M. Brittingham, J. Bishop, and K. Yoder, Early Trends in Landcover Change and Forest Fragmentation Due to Shale-Gas Development in Pennsylvania: A Potential Outcome for the Northcentral Appalachians, Environmental Management, (2012) at 1, 4-6, 9-13; American Water Works Ass'n, "Water and Hydraulic Fracturing: A White Paper from the American Water Works Association" (2013) at 4 (describing degradation of well casing over time); Michelle Bamberger & Robert E. Oswald, Impacts of Gas Drilling on Human and Animal Health, New Solutions, 2012, at 54-61; U.S. Geological Survey Powell Center for Analysis and Synthesis, "Water Quality Studied in Areas of Unconventional Oil and Gas Development, Including Areas Where Hydraulic Fracturing Techniques are Used, in the United States," April 2012, http://pubs.usgs.gov/fs/2012/3049/FS12-3049 508.pdf ("The effects of unconventional oil and gas development and production on regional water quality have not been previously described despite the fact that oil and gas development in the United States began nearly 150 years ago, and more than 4 million oil- and gas-related wells . . . have been drilled with an increasing trend in the use of hydraulic fracturing.")

http://www.dec.ny.gov/docs/materials\_minerals\_pdf/findingstatehvhf62015.pdf http://www.health.ny.gov/press/reports/docs/high\_volume\_hydraulic\_fracturing.pdf http://mdehn.org/resources/public-health-study-of-fracking/ http://thinkprogress.org/climate/2015/05/29/3664098/larry-hogan-maryland-fracking-ban/

more efficient at trapping heat than carbon over a 20-year time frame<sup>7</sup> and its effects persist for hundreds of years<sup>8</sup>. The well documented vented and fugitive losses from natural gas systems contribute to atmospheric warming; current technology and practices have not controlled these releases. The emissions are so great that it is projected that their release from the build out of Marcellus shale will prevent the achievement of global warming goals in Pennsylvania, accelerating climate change.<sup>9</sup> Climate change impacts on the basin's water resources include changes in precipitation and runoff that increase flooding and drought, impairment of habitats and water quality (including salt water intrusion to Delaware Estuary water supplies) and sea level rise<sup>10</sup>; and

WHEREAS, the Delaware River Basin Commission has in place a moratorium that currently prohibits natural gas development in the Delaware River Basin; and

WHEREAS, the Borough of Morrisville supports the continuation of these prohibitions; and

WHEREAS, the Borough of Morrisville considers that the weight of evidence shows that natural gas development cannot be done safely and/or without degrading the exceptional water quality of the Delaware River;

## NOW, THEREFORE, be it, and it is hereby RESOLVED as follows:

- 1. The Borough of Morrisville calls upon the Delaware River Basin Commission to enact a complete and permanent ban on natural gas development and hydraulic fracturing in the Delaware River Basin.
- 2. That a copy of this Resolution be filed with the Delaware River Basin Commission, 25 Cosey Road, P.O. Box 7360, West Trenton, NJ 08628-0360.

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<sup>&</sup>lt;sup>1</sup> Intergovernmental Panel on Climate Change (IPCC). 2013. Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change.

<sup>&</sup>lt;sup>8</sup> http://www.pnas.org/content/early/2017/01/03/1612066114.full

<sup>&</sup>lt;sup>9</sup> PSE Healthy Energy, "Lifecycle Greenhouse Gas Emissions Associated with Projected Future Marcellus Development", 2017.

<sup>10</sup> https://www.epa.gov/climate-impacts/climate-impacts-water-resources

## **ADOPTED** and **RESOLVED** this 23<sup>rd</sup> day of May, 2017.

ATTEST:

MORRISVILLE BOROUGH COUNCIL

Robert C. Sooby, Manager

Fred Kerner, President

David Rivella, Mayor

Virginia E. Cyphers, Borough Secretary