dSGEIS Comments
Bureau of Oil & Gas Regulation
NYSDEC Division of Mineral Resources
625 Broadway, Third Floor
Albany, NY 12233-6500

Dear Sir or Madam:

The U.S. Environmental Protection Agency (EPA) has reviewed the September 2009 draft Supplemental Generic Environmental Impact Statement (dSGEIS) that was prepared by the New York State Department of Environmental Conservation (NYSDEC) Division of Mineral Resources on the Oil, Gas and Solution Mining Regulatory Program Well Permit Issuance for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs. The purpose of the dSGEIS is to satisfy the requirements of the State Environmental Quality Review Act (SEQRA) for NYSDEC to review and process permit applications for the horizontal drilling and hydraulic fracturing (hydrofracturing) of natural gas bearing shales, including the Marcellus Shale. This letter responds to NYSDEC’s requests for comments on the dSGEIS and presents EPA’s major concerns. Technical comments on the dSGEIS are enclosed.

EPA believes that the analysis and discussion of cumulative and indirect impacts in the dSGEIS need to be significantly expanded. Even with its generic format, the dSGEIS should discuss the impacts that may result from past, present, and reasonably foreseeable future projects as well as those impacts associated with gas drilling and hydrofracturing that may occur later in time or at a distance from the immediate project site. For example, as the New York State Public Service Commission (PSC) has the regulatory authority over the construction and operation of the natural gas gathering pipes, the dSGEIS does not include an evaluation of the environmental impacts of the separate yet interrelated actions of siting and constructing gathering lines. EPA also notes that the dSGEIS does not analyze the impacts from new drilling service industries that would undoubtedly result. To ensure a full analysis of cumulative and indirect impacts, we recommend that the PSC become a cooperating agency and that the PSC-related issues be fully integrated in the finalization of this document, and that all potential environmental impacts for the actions of drilling, hydrofracturing, collecting and transporting natural gas from the Marcellus Shale be assessed. Such collaboration may also provide the opportunity to coordinate actions in order to minimize the amount of flaring of gas between the time of opening a well and the construction of gathering lines.

In addition, a greater emphasis needs to be placed on the potential health impacts that may be associated with gas drilling and hydrofracturing. EPA suggests that the New York State Department of Health (DOH) join NYSDEC as a co-lead on the SEQRA document. Not only does DOH have expertise to offer on health impacts, but it was delegated primary enforcement responsibility (primacy) of the Safe Drinking Water Act
by EPA. This is of direct interest to EPA as we are responsible for overseeing DOH's implementation and enforcement of the drinking water program.

While EPA understands that this dSGEIS is the SEQRA documentation to specifically evaluate hydraulic fracturing, it supplements a 1992 SEQRA document. EPA is concerned that over the past 17 years since the 1992 GEIS was written, the "existing" environment and conditions in New York State have changed sufficiently that using the information from that report as a baseline for the dSGEIS will not take into account the cumulative impacts from habitat fragmentation, population increase, and climate change that may have occurred during that time.

EPA is particularly concerned about the potential risks associated with gas drilling activities in the New York City watershed and the reservoirs that collect drinking water for nine million people. As a signatory to the 1997 New York City Watershed Memorandum of Agreement (MOA), EPA strongly supports its major tenets, one of which is that watershed protection and community vitality can be achieved concurrently. Nevertheless, the potential for gas drilling in the watershed poses new challenges that were unanticipated at the point at which the MOA signatories agreed on a common approach to protect drinking water. Despite the mitigation measures already proposed by NYSDEC in the dSGEIS, EPA has serious reservations about whether gas drilling in the New York City watershed is consistent with the vision of long-term maintenance of a high quality unfiltered water supply. As NYSDEC is well aware, the watershed supplies drinking water to over nine million people and the avoidance of filtration saves New York taxpayers billions of dollars that would be needed to construct and operate a water filtration plant should the watershed be compromised.

EPA agrees with the sentiments expressed by Acting Commissioner Steven Lawitts of the New York City Department of Environmental Protection (NYCDEP) in his December 23, 2009 comment letter to NYSDEC: "Balancing environmental and public health concerns with the need for adequate energy resources and economic development is a complex and challenging issue – not only in New York but throughout the nation.” Acting Commissioner Lawitts also states, "New York City’s watershed is a unique resource and deserves special attention and consideration.” To address this concern, EPA recommends a very cautious approach in all watershed areas so that NYSDEC can gain experience with, as well as ensure it has the resource capacity for regulating, high volume hydraulic fracturing activities.

Periodically, EPA reviews drinking water quality in the New York City watershed to ensure that drinking water meets all drinking water standards. If gas drilling, however, adversely impacts water quality in the watershed, the city of New York would likely be required to build a filtration treatment system at an expenditure of $10 billion in capital costs and $100 million in annual operating costs. Clearly, it is in all our interests to avoid this scenario.

Although EPA has not had the opportunity to fully review the information contained in NYCDEP’s Final Impact Assessment Report, we expect NYSDEC to incorporate appropriate technical information into the SEQRA document. Furthermore, we repeat
our proposal of late 2008, that NYSDEC partner with EPA and the NYCDEP to develop an enhanced oversight approach for the New York City watershed that would allow for coordination of regulatory programs such as stormwater permitting, industrial pretreatment, and underground injection control as they relate to horizontal drilling and high volume hydraulic fracturing of the Marcellus Shale. While protecting the New York City watershed is important because of the millions of New Yorkers who rely on this drinking water supply, we also have concerns about water quality impacts throughout the state. Just because fewer people rely on upstate water sources does not imply that these supplies are not also worthy of protection. Therefore, we extend an offer to partner with NYSDEC on similar coordinated efforts state-wide.

Moreover, EPA strongly recommends that the SEQRA documentation reflect any and all direct consultation with each of the Indian Nations in New York State as the dSGEIS does not specifically discuss the impact on the nations. While EPA is aware that NYSDEC has already taken steps in this regard, at the EPA annual Indian leaders meeting in November 2009, representatives of virtually every Indian Nation expressed serious opposition to hydrofracturing. Indian Nation concerns include the radioactivity of cuttings and flowback materials, the fate of toxic/carcinogenic chemicals used in hydrofracturing solutions, the impact on water quality and supply, climate impacts and long-term sustainability.

In addition, to the extent allowed by law, EPA encourages NYSDEC to release information regarding the composition of the hydrofracturing solutions that are expected to be used.

In conclusion, EPA believes that NYSDEC has prepared an informative dSGEIS on hydrologic fracturing of the Marcellus Shale. However, we have concerns regarding potential impacts to human health and the environment that we believe warrant further scientific and regulatory analysis. Of particular concern to EPA are issues involving water supply, water quality, wastewater treatment operations, local and regional air quality, management of naturally occurring radioactive materials disturbed during drilling, cumulative environmental impacts, and the New York City watershed. EPA recommends that these concerns be addressed and essential environmental protection measures established prior to the completion of the SEQRA process.

Thank you for the opportunity to comment on the dSGEIS. EPA’s technical comments on the document are enclosed. If you have any questions, please call Lingard Knutson of my staff at (212) 637-3747.

Sincerely,

John Filippelli, Chief
Strategic Planning and Multi-Media Programs Branch

Enclosure