

Responsible Environmental Management of Oil and Gas Activities in New Brunswick

List of References

New Brunswick Natural Gas Group May 2012

List of References

The Natural Gas Group consulted the following references while preparing the principles and recommendations contained in <u>Responsible Environmental Management of Oil and Gas</u>

Activities in New Brunswick - Public Discussion Document

Note: The internet links contained in this list were valid when this document was prepared, however they are subject to change, as websites are typically revised from time to time.

Academy of Natural Sciences of Drexel University. <u>A Preliminary Study on the Impact of Marcellus Shale Drilling on Headwater Streams</u>. July, 2010

http://www.ansp.org/research/pcer/projects/marcellus-shale-prelim/index.php

Al, Tom, et. al., University of New Brunswick. <u>Opinion: Potential Impact of Shale Gas Exploitation on Water Resources</u>. April, 2012.

http://www.unb.ca/initiatives/shalegas/shalegas.pdf

Alberta Department of Sustainable Resource Development. <u>Exploration Directive 2006-17</u> November 1, 2009.

http://www.srd.alberta.ca/formsonlineservices/directives/documents/ED2006-17-FlowingHolesan-dEncounteringGas-Sep2009.pdf

Alberta Energy Resources Conservation Board (Alberta) Report 2011-A: Unconventional Gas Regulatory Framework—Jurisdictional Review. January 28, 2011 http://www.ercb.ca/docs/documents/reports/r2011-A.pdf

Alberta Energy Resources Conservation Board. <u>Directive 008 - Surface Casing Depth Requirements</u>. December 14, 2010.

http://www.ercb.ca/docs/documents/directives/directive008.pdf

Alberta Energy Resources Conservation Board. <u>Directive 009 - Casing Cementing Minimum</u> Requirements. July 1990

http://www.ercb.ca/docs/documents/directives/Directive009.pdf

Alberta Energy Resources Conservation Board. <u>Directive 0100 - Minimum Casing Design</u> Requirements. December 22, 2009.

http://www.ercb.ca/docs/documents/directives/Directive010.pdf

Alberta Energy Resources Conservation Board. <u>Directive 020 - Well Abandonment</u>, July 1, 2010. http://www.ercb.ca/docs/documents/directives/directive020.pdf Alberta Energy Resources Conservation Board. <u>Directive 027 - Shallow Fracturing Operations-Restricted Operations</u> August, 2009.

http://www.ercb.ca/docs/documents/directives/Directive027.pdf

Alberta Energy Resources Conservation Board. <u>Directive 036 - Drilling Blowout Prevention Requirements and Procedures</u>. February 16, 2006.

http://www.ercb.ca/docs/documents/directives/Directive036.pdf

Alberta Energy Resources Conservation Board. <u>Directive 037 - Service Rig Inspection Manual</u> February 16, 2006.

http://www.ercb.ca/docs/documents/directives/Directive037.pdf

Alberta Energy Resources Conservation Board. <u>Directive 038 – Noise Control</u>. February, 2007. http://www.ercb.ca/docs/documents/directives/Directive038.pdf

Alberta Energy Resources Conservation Board <u>Draft Directive 050 - Drilling Waste Management.</u>
April 18, 2011.

http://www.ercb.ca/docs/documents/directives/Directive050_Draft_201104.pdf

Alberta Energy Resources Conservation Board <u>Directive 056 – Energy Development Applications and Schedules</u> November, 2009

http://www.ercb.ca/docs/documents/directives/directive056.pdf

Alberta Energy Resources Conservation Board. <u>Explaining ERCB Set-backs</u>. Accessed, February, 2012.

http://www.ercb.ca/docs/public/EnerFAQs/PDF/EnerFAQs5-Setbacks.pdf

Alberta Government. Negotiating Surface Rights. 2009.

http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/agdex1126/\$file/878-1.pdf?OpenElement

Alberta Oil and Gas Orphan Abandonment and Reclamation Association. <u>Orphan Well Association 2009/10 Annual Report</u>. June 2010.

http://www.orphanwell.ca/OWA%202009-10%20Ann%20Rpt%20Final.pdf

Alberta Surface Rights Board. <u>Rights of Entry</u> http://www.surfacerights.gov.ab.ca/rightsofentry/default.aspx

Alberta Surface Rights. <u>Interwellbore Communication During Frack Operations</u>. January, 2012 http://www.albertasurfacerights.com/articles/?id=1580

American Oil and Gas Reporter. <u>Data Confirm Safety Of Well Fracturing</u>. July, 2010. http://www.fidelityepco.com/Documents/OilGasRept_072010.pdf

American Petroleum Institute. <u>Hydraulic Fracturing Operations - Well Construction and Integrity Guidelines</u>. October, 2009.

http://www.shalegas.energy.gov/resources/HF1.pdf

American Petroleum Institute. <u>Water Management Associated with Hydraulic Fracturing</u>. June 2010

http://www.api.org/policy/exploration/hydraulicfracturing/upload/HF2_e1.pdf

American Petroleum Institute. <u>Practices for Mitigating Surface Impacts Associated with Hydraulic Fracturing</u>. January, 2011a.

http://www.api.org/policy/exploration/hydraulicfracturing/upload/HF3_e7.pdf

American Petroleum Institute. <u>Overview of Industry Guidance/Best Practices on Hydraulic Fracturing</u>. August, 2011b.

http://www.api.org/policy/exploration/hydraulicfracturing/upload/Hydraulic_Fracturing_InfoSheet.pdf

Argonne National Laboratory. <u>Drilling Waste Management Information System.</u> Accessed May, 2011.

http://web.ead.anl.gov/dwm/index.cfm

Armstrong, Ed. <u>Dispelling myths about shale gas</u>. CBC News. November 28, 2011. http://www.cbc.ca/news/canada/new-brunswick/story/2011/11/13/nb-f-shale-gas-ed-armstrong-700.html

Arthur, J.D., B. Bohm, B.J. Coughlin, and M. Layne. <u>Evaluating the Environmental Implications of Hydraulic Fracturing in Shale Gas Reservoirs</u>. 2008 http://all-llc.com/publicdownloads/ArthurHydrFracPaperFINAL.pdf

Arkansas Oil and Gas Commission. <u>Request For An Immediate Moratorium On Any New Or Additional Class 2 Commercial Disposal Well Or Class 2 Disposal Well Permits In Certain Areas</u>. August 2, 2011.

http://www.aogc.state.ar.us/Hearing%20Orders/2011/July/180A-2-2011-07.pdf

Arkansas Oil and Gas Commission. Rule B-19 - <u>Requirements for Well Completion Using Fracture Stimulation</u>. January, 2011.

http://www.aogc.state.ar.us/Fracture_Stimulation_Forms.htm

Arkansas Public Policy Panel. <u>Model Oil and Gas Laws, Regulations and Ordinances</u>. March, 2011 http://arpanel.org/content/Model%20Gas%20Laws.pdf

Armendariz, Al. <u>Emissions from Natural Gas Production in the Barnett Shale Area and Opportunities for Cost-Effective Improvements.</u> Department of Environmental and Civil Engineering, Southern Methodist University. January, 2009.

http://www.edf.org/documents/9235_Barnett_Shale_Report.pdf

Associated Press. <u>Outside review of NC oil, gas regulations begins as state considers "fracking" for natural gas</u> October 24, 2011.

http://www.wtkr.com/news/sns-ap-nc--fracking-study,0,7687363.story

Associated Press. Experts: Okla. quakes too powerful to be man-made. November 7, 2011 http://www.google.com/hostednews/ap/article/ALeqM5gnMAj02_yXaZ986T_c0NmzRLHzFA?docId =35f0abf919f542789520f9ed9e4b0820

Associated Press. <u>CDC scientist: tests needed on gas drilling impact.</u> January 4, 2012 http://online.wsj.com/article/AP8338b702930849f49d22a5d96b7d1b2d.html#articleTabs%3Darticle

Associated Press. <u>EPA: NY Should Map Gas Wells, Set Radiation Limits.</u> January 12, 2012a http://www.telegram.com/article/20120112/APA/301129762

Association of Professional Engineers, Geologists and Geophysicists of Alberta. <u>APEGGA, Professional Engineers and Geoscientists, Water and Hydraulic Fracturing in Alberta: The Facts.</u> November, 2011

http://www.apegga.org/pdf/FactSheet_Nov_final.pdf

Atlantica Centre for Energy. <u>Considerations for Responsible Gas Development of the Frederick Brook Shale in New Brunswick</u> - Fundy Engineering & Consulting Ltd. March, 2011. http://www.atlanticaenergy.org/uploads/file/ACfE%20Shale%20Gas%20Paper%20-%2025%20 March%202011%20FINAL.pdf

Atlantic Council. <u>European Unconventional Gas Developments</u>: <u>Environmental Issues and Regulatory Challenges in the EU and the U.S</u>. June, 2011.

http://www.acus.org/files/publication_pdfs/403/070711_ACUS_UnconvGas.PDF

Bamberger, Michelle and Robert E. Oswald. <u>Impacts Of Gas Drilling On Human And Animal Health.</u> January, 2012.

http://www.marcellus-shale.us/pdf/Bamberger_Oswald_NS22_in_press.pdf

Begos, Kevin. <u>Spin overtaking Facts in Marcellus Shale Debate</u>. Associated Press. September 26, 2011.

http://www.google.com/hostednews/ap/article/ALeqM5hKTtlsZTyPOVnHe524EtakTRr4JA?docId=a 840af7e26194a0696c4fb46c4ca92fc

Begos, Kevin. <u>Pa. industry group to disclose drilling chemicals</u>. Associated Press. October 22, 2011. http://www.pressconnects.com/article/20111022/NEWS01/110220332/Pa-industry-group-disclose-drilling-chemicals?odyssey=nav|head

Bishop, Ronald E. <u>Chemical and Biological Risk Assessment for Natural Gas Extraction in New York. Sustainable Otsego</u>. March 28, 2011.

http://sustainableotsego.org/Risk%20Assessment%20Natural%20Gas%20Extraction-1.htm

Bloomberg. France to Press Ahead With Shale Research After Fracking Ban October 4, 2011. http://www.albertaoil.co/2011/10/04/france-to-press-ahead-with-shale-research-after-fracking-ban/

Bramley, Matthew. <u>Is Natural Gas a Climate Change Solution for Canada?</u> The Pembina Institute. July 14, 2011

http://www.pembina.org/pub/2240

Bridges, Eunice. <u>Colorado Announces Water-Sampling Effort to Fight Fracking Fears</u>. August 2, 2011.

http://www.platts.com/RSSFeedDetailedNews/RSSFeed/NaturalGas/6339937

British Columbia Agricultural Land Commission. <u>Legislation</u>. (Accessed April, 2011) http://www.alc.gov.bc.ca/legislation/legislation_main.htm#oilngas

British Columbia Oil and Gas Commission. <u>British Columbia Noise Control Best Practices Guide</u>line. March 2009.

http://www.bcogc.ca/document.aspx?documentID=729&type=.pdf

British Columbia Oil and Gas Commission. Communication During Fracture Stimulation. May, 2010.

http://www.bcogc.ca/document.aspx?documentID=808&type=.pdf

British Columbia Government On-Line News Source. <u>Increased Transparency for Natural Gas Sector</u>. September 8, 2011.

http://www.newsroom.gov.bc.ca/2011/09/increased-transparency-for-natural-gas-sector.html

British Columbia Oil and Gas Commission. <u>Information Letter # OGC 09-07 Subject: Storage of Fluid Returns from Hydraulic Fracturing Operations.</u> March 12, 2009a.

http://www.bcogc.ca/documents/informationletters/OGC%2009-07%20Storage%20of%20Fraccing%20Fluid%20Returns.pdf

British Columbia Oil and Gas Commission. <u>Information Bulletin IB # 07-09 - Safety Alert Regarding Welding of Casing Bowls</u>. July 15, 2009b.

http://www.bcogc.ca/document.aspx?documentID=408&type=.pdf

British Columbia Oil and Gas Commission. Oil and Gas Activity Act and Regulations. 2010a. http://www.bcogc.ca/OGAA/?ogaa

British Columbia Oil and Gas Commission. <u>Oil and Gas Water Use in British Columbia</u>. August, 2010b.

http://www.bcogc.ca/document.aspx?documentID=856

British Columbia Oil and Gas Commission. <u>Consultation and Notification Manual</u>. March, 2011a http://www.bcogc.ca/document.aspx?documentID=909&type=.pdf

British Columbia Oil and Gas Commission <u>Directive 2011-02 - Changes in Section 8</u> <u>Short Term Water Use Approvals</u>. March 2,2011

http://www.bcogc.ca/document.aspx?documentID=1063&type=.pdf

British Columbia Oil and Gas Commission. <u>Directive 2010-7 - Reporting Of Water Production And Flow Back Fluids.</u> December 6, 2010c.

http://www.bcogc.ca/document.aspx?documentID=1034&type=.pdf

British Columbia Oil and Gas Commission. <u>Oil and Gas Commission Fact Sheet - Reclamation and</u> Remediation November 2010d.

 $http://www.bcogc.ca/documents/publications/Fact\%20Sheets/Reclamation_and_Remediation_FI-NAL.pdf$

British Columbia Oil and Gas <u>Oil and Gas Commission Fact Sheet - Commission Fracturing (Fraccing) and Disposal of Fluids.</u> November 2010e.

 $http://www.bcogc.ca/documents/publications/Fact\%20 Sheets/Fracturing_and_Disposal_of_Fluids_FINAL.pdf$

British Columbia Oil and Gas Commission. <u>Environmental Protection and Management Guidebook.</u> October, 2010f.

http://www.bcogc.ca/document.aspx?documentID=927&type=.pdf

British Columbia Oil and Gas Commission. <u>Consultation and Notification Manual</u>. June 2011 (Version 1.7).

http://www.bcogc.ca/document.aspx?documentID=909&type=.pdf

British Columbia Oil and Gas Commission. <u>Draft Interim Consultation Procedure with Treaty 8 First Nations</u>. April 2011 (Version 1).

http://www.bcogc.ca/document.aspx?documentID=1074&type=.pdf

British Columbia Oil and Gas Commission. <u>Well Drilling Guideline</u> Version 1.3 July, 2011. http://www.bcogc.ca/document.aspx?documentID=919&type=.pdf

British Columbia Oil and Gas Commission. <u>Safety Advisory</u> 2010-03 Communication During <u>Fracture Stimulation</u>. May 20, 2010.

http://www.bcogc.ca/document.aspx?documentID=808&type=.pdf

British Geological Survey. <u>Blackpool Earthquake</u>. Accessed, October 17, 2011. http://www.bgs.ac.uk/research/earthquakes/BlackpoolMay2011.html

Cabot Energy. Water Well Data Summary. October 19, 2011. http://www.cabotog.com/pdfs/Water_Well_Summary_Data.pdf

Canadian Association of Petroleum Producers. <u>Naturally Occurring Radioactive Materials</u>. June 2000.

http://www.ttisafety.com/pdf/Canadian%20Association%20of%20Petroleum%20Producers%20-%20CAPP%20-%20NORM%20Guide.pdf

Canadian Association of Petroleum Producers. <u>Submission to Government of Nova Scotia Hydraulic Fracturing Review</u>. June, 2011. Page 611 of:

http://www.gov.ns.ca/nse/pollutionprevention/docs/Consultation.Hydraulic.Fracturing.Review. Public.Comments.pdf

Canadian Association of Petroleum Producers. <u>Guiding Principles for Hydraulic Fracturing</u>. September 8, 2011.

http://www.capp.ca/aboutUs/mediaCentre/NewsReleases/Pages/GuidingPrinciplesforHydraulic-Fracturing.aspx#6EOJUubX5R2I

Canadian Association of Petroleum Producers. <u>The Facts on Natural Gas</u>. September, 2011. http://www.capp.ca/UpstreamDialogue/NaturalGas/Pages/default.aspx#R4KnZnE0TLl7 Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice</u>: <u>Fracturing Fluid Additive Disclosure.</u> January, 2012.

http://www.capp.ca/getdoc.aspx?DocId=199626&DT=NTV

Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice:</u> <u>Fracturing Fluid Additive Risk Assessment and Management.</u> January, 2012. http://www.capp.ca/getdoc.aspx?DocId=199627&DT=NTV

Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice:</u> <u>Baseline Groundwater Testing.</u> January, 2012.

http://www.capp.ca/getdoc.aspx?DocId=199750&DT=NTV

Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice:</u> <u>Wellbore Construction and Quality Assurance.</u> January, 2012. http://www.capp.ca/getdoc.aspx?DocId=200279&DT=NTV

Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice:</u> <u>Water Sourcing, Measurement and Reuse.</u> January, 2012. http://www.capp.ca/getdoc.aspx?DocId=200282&DT=NTV

Canadian Association of Petroleum Producers. <u>CAPP Hydraulic Fracturing Operating Practice</u>: <u>Fluid Transport, Handling, Storage and Disposal.</u> January, 2012. http://www.capp.ca/getdoc.aspx?DocId=200302&DT=NTV

Carnegie Mellon University. <u>Life cycle greenhouse gas emissions of Marcellus shale gas.</u> August 5, 2011.

http://iopscience.iop.org/1748-9326/6/3/034014/fulltext

Carroll, Joe. <u>Drought Threatens Texas Oil Boom.</u> Bloomburg. June 13, 2011 http://www.bloomberg.com/news/2011-06-13/worst-drought-in-more-than-a-century-threatens-texas-oil-natural-gas-boom.html

Carter, J. Darryl. <u>Surface rights - Representing the Owner.</u> The Expropriation Law Centre. January, 2004.

http://www.expropriationlaw.ca/articles/art03600.asp

CBC News. <u>Earthquakes could be linked to B.C. gas drilling.</u> September 29, 2011 http://www.cbc.ca/news/canada/british-columbia/story/2011/09/28/bc-fracking-gas-earthquakes. html

Center for Rural Pennsylvania. <u>The Impact of Marcellus Gas Drilling on Rural Drinking Water Supplies</u>. October, 2011.

http://www.rural.palegislature.us/documents/reports/Marcellus_and_drinking_water_2011_rev.pdf

Chesapeake Energy. Produced Formation Water Sample Results from Shale Plays. 2011. http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/upload/producedformation-watersampleresultsfromshaleplays.pdf

Chesapeake Energy. <u>Independent Report on Atgas Incident Finds No Impact on Local Water Wells</u>. October 15, 2011.

http://www.chk.com/News/Articles/Pages/release_2011101501.aspx

Chesapeake Energy. <u>11 Percent of Water Wells Contain Methane Before Drilling</u>. August 7, 2011 http://mobile.statejournal.com/story.cfm?func=viewstory&storyid=104907

Chung, Andrew. <u>Quebec between a rock and a hard place on gas from shale</u>. Toronto Star. July 25, 2010

http://www.thestar.com/news/quebec/article/839794--quebec-between-a-rock-and-a-hard-place-on-gas-from-shale

Citizens Marcellus Shale Commission. <u>Marcellus Shale: A Citizens View</u>. October 24, 2011. http://pennbpc.org/sites/pennbpc.org/files/CMSC-Final-Report.pdf

Claims Journal. <u>USGS: No Fracking Fluid Found in Arkansas Water Wells</u>. October 14, 2011 http://www.claimsjournal.com/news/southcentral/2011/10/14/193022.htm

Colgate University. <u>Preliminary Progress Report Mineralogy and Geochemistry of Well Cuttings</u> (New York Shale). July 30, 2010

http://www.co.chenango.ny.us/Planning/Preliminary%20Report%20on%20Well%20Cuttings%20Research%20July%202010.pdf

Colorado Department of Public Health and Environment. <u>Public Health Implications of Ambient Air Exposures as Measured in Rural and Urban Oil & Gas Development Areas – an Analysis of 2008 Air Sampling Data, Garfield County Colorado</u>. August 26, 2010.

http://www.atsdr.cdc.gov/HAC/pha/GarfieldCountyColorado2010/GarfieldCountyColorado-HC08262010.pdf

Colorado, Garfield County (S.S. Papadopulos & Associates). <u>Phase II Hydrogeologic Characterization for the Mamm Creek Field Area</u>. September 2008.

http://www.garfield-county.com/oil-gas/phase-II-hydrogeologic-characterization-mamm-creek.aspx

Colorado, Garfield County (Geoffrey Thyne). <u>Review of Phase II</u>. December 20, 2008. http://s3.amazonaws.com/propublica/assets/methane/thyne_review.pdf

Colorado Oil and Gas Conservation Commission. <u>Order No. 1V-276 In The Matter Of Alleged Violations Of The Rules And Regulations Of The Colorado Oil And Gas Conservation Commission By EnCana Oil & Gas (USA) Inc. Garfield County, Colorado. August 16, 2004. http://cogcc.state.co.us/orders/orders/1v/276.html</u>

Colorado Oil and Gas Conservation Commission. <u>Well water analytical results (McClure, Markham and Ellesworth Properties)</u> 2008-2009.

http://cogcc.state.co.us/Announcements/McClureMarkhamEllsworthCorrespondence.pdf

Colorado Oil and Gas Conservation Commission. Well water analytical results (Bracken Property) December 31, 2008.

http://cogcc.state.co.us/Announcements/Bracken_Data.pdf

Colorado Oil and Gas Association. <u>Hydraulic Fracturing White Paper</u>. July 25, 2011. http://www.coga.org/pdfs_facts/Hydraulic%20Fracturing%204.pdf

Colorado Oil and Gas Conservation Commission. <u>Amended Rules</u>. April 1, 2009 http://cogcc.state.co.us/RR_Docs_new/Rules/Completed%20Rules.pdf

Colorado Oil and Gas Conservation Commission. <u>Reclamation Rules.</u> 2006 http://cogcc.state.co.us/RR_Asps/1000-Ser.pdf

Colorado Oil and Gas Conservation Commission. <u>Gasland Correction Document</u>. October 29, 2010.

http://cogcc.state.co.us/library/GASLAND%20DOC.pdf

Colorado School of Mines. <u>An Integrated Framework for Treatment and Management of</u> Coal bed Methane Produced Water. April, 2011.

http://www.rpsea.org/attachments/contentmanagers/3458/07122-12-UGC2011-Produced_Water_Research_Drewes_4-20-11.pdf

Colorado School of Public Health. <u>Battlement Mesa Health Impact Assessment</u>. June, 2011. http://www.garfield-county.com/public-health/battlement-mesa-health-impact-assessment-draft2.aspx

Community Science Institute. <u>Documenting Contamination of Private Water Supplies by Gas Well Drilling in New York State.</u> April, 2009

http://un-naturalgas.org/Gas%20wells%20and%20water%20FAQ-Documenting%20Contamination.pdf

Conservation Council of New Brunswick. <u>Fracking for Shale Gas in New Brunswick: What You Need to Know.</u> Summer, 2010.

http://www.conservationcouncil.ca/files/Publications/FrackingPrimer_Final.pdf

Corrigan, Gregg. <u>Shale gas moratorium needed until further study</u>. CBC News. November 28, 2011.

http://www.cbc.ca/news/canada/new-brunswick/story/2011/11/26/nb-f-fractured-future-gregg-corrigan-1253.html

Cysper, Darlene. <u>Colorado Law and Induced Seismicity</u>. 1996. http://www.darlenecypser.com/induceg/ColoradoLawandInducedSeismicity.html

Delaware River Basin Commission. <u>Draft Natural Gas Development Regulations</u>. December 9, 2010

http://www.state.nj.us/drbc/naturalgas-draftregs.pdf

Delaware River Basin Commission. <u>Revised Draft Natural Gas Development Regulations Fact Sheet.</u> November 8, 2011.

http://www.state.nj.us/drbc/notice_naturalgas-draftregs.htm

De Pater, Dr. C.J. et.al. <u>Geomechanical Study of Bowland Shale - Seismicity Synthesis Report</u>. November 2, 2011.

http://www.bucknell.edu/script/environmentalcenter/marcellus/default.aspx?articleid=MF08SXMW 82CV1MQAXK7ZINIPP

Duke University. Nicholas School of the Environment. Responses to Frequently Asked Questions and Comments About the Shale-Gas Paper by Osborn et al. May, 2011 http://www.nicholas.duke.edu/hydrofracking/responses-about-gas-shale

Duke University. Nicholas School of the Environment. <u>Research and Policy Recommendations for Hydraulic Fracturing and Shale-Gas Extraction</u>. 2011a http://www.nicholas.duke.edu/cgc/HydraulicFracturingWhitepaper2011.pdf

Duke University. Nicholas Institute for Environmental Policy Solutions. <u>Considering Shale Gas Extraction in North Carolina: Lessons from Other States.</u> November, 2011. http://nicholasinstitute.duke.edu/climate/policydesign/nc-hydraulic-fracturing

Earthworks. <u>Surface Owner Protection Legislation</u>. http://www.earthworksaction.org/SOPLegislation.cfm#STATELAWCHART

Energy Institute. University of Texas at Austin. <u>Comprehensive Study of Hydraulic Fracturing of Shale Gas</u>. Accessed November, 2011.

http://www.utexas.edu/news/2011/11/09/energy_fracing/

Enform. Drilling Completion Committee. <u>Well Testing And Fluid Handling An Industry Recommended Practice (IRP) For The Canadian Oil And Gas Industry.</u> 2009 http://enform.ca/media/3672/irp4_final_2009.pdf

Enform. <u>Standards For Wellsite Supervision of Drilling, Completion and Workovers - An Industry Recommended Practice (IRP) For The Canadian Oil And Gas Industry</u>. IRP Volume 7. 2008 http://enform.ca/media/3589/irp7 final 2008.pdf

English, Dave. <u>DEP Regulatory Requirements Chapter 78 Subchapter D</u>. Division of Compliance and Data Management, Pennsylvania Bureau of Oil and Gas Management http://www.google.ca/url?sa=t&source=web&cd=8&ved=0CDkQFjAH&url=http%3A%2F%2Fwww.dep.state.pa.us%2Fdep%2Fdeputate%2Fminres%2Foilgas%2Fnew_forms%2FMarcellus%2FTraining%2F2011Powerpoints%2F16%2520March%25202011%2520Subchapter%2520D%2520Industry%2520Training.ppt&ei=wbDTTcXuBYfKgQfO6PjSCw&usg=AFQjCNH1Zlu0N1mKDcmkqyxdWJbDWTz1CO

Entrekin, Sally, et.al. <u>Rapid expansion of natural gas development poses a threat to surface waters.</u> Frontiers in Ecology and the Environment. Volume 9, Issue 9. November 2011. http://www.esajournals.org/doi/abs/10.1890/110053

Environmental Defence Fund. <u>Draft Model Regulatory Framework for Hydraulically Fractured</u> <u>Hydrocarbon Production Wells</u> - (Draft of December 15, 2010)

Environmental Defence Fund. <u>Draft Model Regulatory Framework for Hydraulically Fractured Hydrocarbon Production Wells</u> - (Draft of September 30, 2011)

Environmental Working Group. <u>EPA Report: Fracking Contaminated Drinking Water</u>. August 3, 2011.

http://www.ewg.org/release/epa-report-fracking-contaminated-drinking-water

Environmentally Friendly Drilling Systems Program. <u>Real Time Air Monitoring.</u> Accessed November, 2011.

http://www.efdsystems.org/Portals/25/2011-03-10%20EFD-Air%20Factsheet.pdf

European Parliament. Directorate General for Internal Policies. <u>Impacts of Shale Gas and Shale Oil Extraction on the Environment and on Human Health</u>. June, 2011.

http://www.europarl.europa.eu/document/activities/cont/201107/20110715ATT24183/20110715ATT 24183EN.pdf

Fekete, Jason, and Rebecca Penty. <u>Ottawa Enters Debate Over Shale Gas Development</u>. Calgary Herald. September 22, 2011.

http://www.calgaryherald.com/business/Ottawa+enters+debate+over+shale+development/5438868/story.html?cid=megadrop_story

Gas Technology Institute. <u>Produced Water Research Projects</u>. April 7, 2010. http://www.rpsea.org/attachments/contentmanagers/3458/08122-05_and_08122-36-Produced_Water_Research_Projects%E2%80%93GTI_and_GE.pdf

Geoscience BC. <u>Geoscience BC Announces Collaborative Horn River Basin Water Study Phase II Activities</u>. September 9, 2011.

http://www.geosciencebc.com/s/NewsReleases.asp?ReportID=478074&_Title=Geoscience-BC-Announces-Collaborative-Horn-River-Basin-Water-Study-Phase-II

Gilliland, Donald. <u>Marcellus Shale Drilling Process Pumps Water Underground, Never to Return</u>. The Patriot-News. June 10, 2011

http://www.pennlive.com/midstate/index.ssf/2011/06/marcellus_shale_drilling_proce.html

Groat, Charles G. et. al. <u>Fact-Based Regulation for Environmental Protection in Shale Gas Development.</u> February 16, 2012.

http://www.energy.utexas.edu/images/ei_shale_gas_reg_summary1202.pdf

Groundwater Centre. <u>Summary Of Previous Studies of The Effect Of Seismic Shooting on Water Wells In Alberta.</u> March, 1995.

http://www.10714.com/pdf/hclsite/seismic_shooting.pdf

Halliburton. <u>CleanStim® Hydraulic Fracturing Fluid System</u>. Accessed May, 2011. http://www.halliburton.com/ps/Default.aspx?navid=93&pageid=4184&prodid=PRN%3a%3aKWTB F215&TOPIC=HydraulicFracturing

Hamilton, Tyler. <u>Proceed with caution on shale gas</u>. Toronto Star. July 26, 2010. http://www.thestar.com/business/cleanbreak/article/838951--hamilton-proceed-with-caution-on-shale-gas

Health Canada. <u>Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials (NORM)</u>. 2000.

http://www.hc-sc.gc.ca/ewh-semt/pubs/contaminants/norm-mrn/index-eng.php

Hopey, Don and Sean D. Hamill. <u>Marcellus Wastewater Shouldn't go to Treatment Plants.</u> Pittsburgh Post-Gazette. April 19, 2011 http://www.post-gazette.com/pg/11109/1140412-100-0.stm

Howarth, Robert W., Renee Santoro and Anthony Ingraffea. <u>Methane and the Greenhouse-Gas</u> <u>Footprint of Natural Gas From Shale Formations - a letter</u>. April 12, 2011

Houston Advanced Research Center. Hydraulic Fracturing: Environmentally Friendly Practices. 2011.

http://www.efdsystems.org/Portals/25/Hydraulic%20Fracturing%20BMPs%20White%20Paper.pdf

ICF International. <u>Analysis of Subsurface Mobility of Fracturing Fluids</u>. 2009. As reported in Appendix 11 of <u>Draft supplement generic environmental impact statement 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 (New York Department of Environmental Conservation, 2011)</u>

http://www.dec.ny.gov/docs/materials_minerals_pdf/rdsgeisapp1140911.pdf

Independent Oil and Gas Association of New York. <u>Comments on the New York State Department of Environmental Conservation's Proposed Regulations For High-Volume Hydraulic Fracturing</u>. January 11, 2012.

http://www.marcellusfacts.com/blog/wp-content/uploads/2012/01/20120111-FINAL-Comments-on-Proposed-Regulations-Tab-3.pdf

Ingraffea, Anthony R. <u>Some Scientific Failings with the Draft Supplemental Generic Environmental Statement and Proposed Regulations: Comments and Recommendations</u>. January 8, 2012. http://psehealthyenergy.org/data/dSGEIS_comments_Ingraffea_Jan_2012.pdf InsideClimate News. <u>New Waterless Fracking Method Avoids Pollution Problems, But Drillers Slow to Embrace It</u>. November 6, 2011.

http://insideclimatenews.org/news/20111104/gasfrac-propane-natural-gas-drilling-hydraulic-fracturing-fracking-drinking-water-marcellus-shale-new-york

Institut national de santé publique du Québec, Direction de la santé environnementale et de la toxicologie <u>État des connaissances sur la relation entre les activités liées au gaz de schiste et la santé publique – Rapport Préliminaire</u>. Novembre 2010.

http://www.inspg.gc.ca/pdf/publications/1177_RelGazSchisteSantePubRapPreliminaire.pdf

International Energy Agency. <u>Are we Entering the Age of Golden Gas?</u> June, 2011. http://iea.org/weo/docs/weo2011/WEO2011_GoldenAgeofGasReport.pdf

Jaccard, Mark and Brad Griffin. <u>Shale Gas and Climate Targets: Can They be Reconciled?</u> Pacific Institute for Climate Solutions. 2010.

http://www.pics.uvic.ca/assets/pdf/publications/Shale%20Gas%20and%20Climate%20Targets.pdf

Kirkland, Joel. <u>Department of Energy Wades into Fracking Debate.</u> Scientific American. July 26, 2011.

http://www.scientificamerican.com/article.cfm?id=department-of-energy-wades-into-fracking-debate

Kusnetz, Nicholas. <u>Critics Find Gaps in State Laws to Disclose Hydrofracking Chemicals.</u> ProPublica, June 20, 2011.

http://www.propublica.org/article/critics-find-gaps-in-state-laws-to-disclose-hydrofracking-chemicals/single#drillchart

Kuykendall, Blair <u>Professor from Duke University shares findings on health effects of shale gas drilling.</u> February 3, 2012

http://utdailybeacon.com/student-life/2012/feb/3/professor-duke-university-shares-findings-health-e/

Lawrence Berkeley National Laboratory. <u>Induced Seismicity Primer</u>. Accessed November 29, 2011. http://esd.lbl.gov/research/projects/induced_seismicity/primer.html

Legere, Laura <u>Study finds bromide - but no fracking impacts - in water after drilling</u>. Times-Tribune . October 26, 2011.

http://thetimes-tribune.com/news/gas-drilling/study-finds-bromide-but-no-fracking-impacts-inwater-after-drilling-1.1223413#axzz1ffcazYEm

Levi, Michael A. Shale Gas Isn't Actually Evil. But the Shale Gas Industry is Behaving Stupidly. The New Republic. July 18, 2011.

http://www.cfr.org/natural-resources-management/shale-gas-isnt-actually-evil-but-shale-gas-in-dustry-behaving-stupidly/p25490?cid=rss-energy_environment-shale_gas_isn%E2%80%99t_actually_evil.-071811

Levy, Marc. <u>Pa. wants to end gas-drilling wastewater discharge</u>. Associated Press. April 19, 2011 http://www.forbes.com/feeds/ap/2011/04/19/general-energy-us-gas-drilling-pollution 8425503. http://www.forbes.com/feeds/ap/2011/04/19/general-energy-us-gas-drilling-pollution 8425503.

Lock Haven University of Pennsylvania. <u>Water-Quality Monitoring in the Marcellus Shale Gas-Drilling Area in the Beech Creek Watershed.</u> September 2010. http://www.lhup.edu/mkhalequ/Research/DmBCWA10.pdf

Louisiana Department of Environmental Quality. NORM regulations LAC 33:XV, Chapter 14: <u>Regulation and Licensing of Naturally Occurring Radioactive Material (NORM)</u>. Accessed in April 2011. http://www.deq.louisiana.gov/portal/

Mansfield University. <u>Marcellus Shale Water Study Group Well Water Testing</u>. Accessed, October, 2011.

http://news.mansfield.edu/archives/?i=21034

Majer, Ernie, et. al. <u>Protocol for Addressing Induced Seismicity Associated with Enhanced Geothermal Systems (EGS).</u> May 31, 2011.

http://esd.lbl.gov/files/research/projects/induced_seismicity/egs/EGS-IS-Protocol-Final-Draft-20110531.pdf

Marcellus Drilling News. Former PA DEP Officials, Industry Group Point Out Problems with Duke University Study Linking Methane in Water with Fracking. May 11, 2011 http://marcellusdrilling.com/2011/05/former-pa-dep-officials-industry-group-point-out-problems-with-duke-university-study-linking-methane-in-water-with-fracking/

Maryland Department of Environment. <u>Application for Gas Exploration and Production</u>. November 1, 2008

http://www.mde.state.md.us/programs/Permits/LandManagementPermits/LandPermitApplicationsandOtherForms/Documents/www.mde.state.md.us/assets/document/permit/MDE-LMA-PER045.pdf

Maryland. Marcellus Shale Safe Drilling Initiative. Executive Order on the Marcellus Shale Safe Drilling Initiative. 2011.

http://www.mde.state.md.us/programs/Land/mining/Non%20Coal%20Mining/Documents/Shale_EO_factsheet_06101

Maryland. <u>Marcellus Shale Safe Drilling Initiative Study Part 1</u>. December, 2011a. http://www.mde.maryland.gov/programs/Land/mining/marcellus/Documents/Meetings/Marcellus_Shale_Report_Part_I_Dec_2011.pdf

McCarthy, Shawn. Shale gas 'Fracking' Halted After Possible Quake Link Globe and Mail. June 2, 2011

http://m.theglobeandmail.com/report-on-business/international-news/uk-shale-gas-drilling-halt-ed-after-quakes/article2042598/?service=mobile

Michigan Department of Environmental Quality - <u>Supervisor of Wells Instruction 1.2011 - High Volume Hydraulic Fracturing Well Completions</u> - Effective June 22, 2011 http://www.michigan.gov/documents/deg/Sl_1-2011_353936_7.pdf

Milligan, Mark R. What are seismic surveys and how much "shaking" do they create? Survey Notes, v. 36 no. 3. July 2004

http://geology.utah.gov/surveynotes/gladasked/gladseismicsurveys.htm

Montana Department Of Natural Resources and Conservation. <u>In the matter of the adoption of New Rules I through V regarding oil and gas well stimulation - Notice Of Public Hearing On Proposed Adoption.</u> May 16, 2011

http://www.bogc.dnrc.mt.gov/PDF/36-22-157pro-arm.pdf

Mooney. Chris. <u>The Truth About Fracking. Scientific American</u>. November, 2011. http://www.scientificamerican.com/article.cfm?id=the-truth-about-fracking

Muehlenbachs, Karlis. <u>Identifying the Sources of Fugitive Methane Associated with Shale Gas Development</u>. January, 2012.

http://www.rff.org/Documents/Events/Seminars/111114_Managing_the_Risks_of_Shale_Gas/Mulenbachs%20Nov%2014FINAL.pdf

Murray, Linda. <u>Shale gas is a sorry choice</u>. CBC News. November 28, 2011. http://www.cbc.ca/news/canada/new-brunswick/story/2011/11/13/nb-f-shale-gas-lynda-murray-625.html National Academy of Sciences (U.S.). <u>Induced Seismicity Potential in Energy Technologies</u>. Accessed, November, 2011.

http://www8.nationalacademies.org/cp/projectview.aspx?key=49325

National Energy Board. <u>A Primer for Understanding Canadian Shale Gas</u>. November 2009 http://www.neb-one.gc.ca/clf-nsi/rnrgynfmtn/nrgyrprt/ntrlgs/prmrndrstndngshlgs2009/prmrndrstndngshlgs2009-eng.pdf

National Energy Technology Laboratory. <u>Produced Water Management Information System.</u> http://www.netl.doe.gov/technologies/PWMIS/

National Energy Technology Laboratory. <u>Design and Rationale for a Field Experiment using Tracers in Hydraulic Fracture Fluid</u>. March, 2010.

http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/upload/designandrationale-forafield experiment using tracers in hffluid.pdf

National Energy Technology Laboratory. <u>Marcellus Shale Gas Production and the Environment</u> April 5, 2011.

http://www.vmi.edu/WorkArea/DownloadAsset.aspx?id=4294973485&libID

National Energy Technology Laboratory. <u>Resource and Environmental Studies on the Marcellus Shale undated</u>

http://www.mde.state.md.us/programs/Land/mining/marcellus/Documents/Marcellus_GeoEnv_Soeder.pdf

National Energy Technology Laboratory. <u>Air Monitoring Study</u> Accessed, October, 2011. http://www.netl.doe.gov/newsroom/labnotes/2011/08-2011.html

National Energy Technology Laboratory. <u>Influence of Unpaved Roads</u>. 2011. http://www.netl.doe.gov/newsroom/labnotes/2011/08-2011.html

National Groundwater Association. <u>Hydraulic Fracturing: Meeting the Nation's Energy Needs While Protecting Groundwater Resources.</u> January 31, 2012 http://www.ngwa.org/Media-Center/press/2012/Pages/2012-01-31-hydraulic-fracturing.aspx

Natural Gas.Org <u>Well Completion</u>. Accessed July, 2011. http://www.naturalgas.org/naturalgas/well_completion.asp

Natural Resources Canada. <u>Program of Energy Research and Development</u>. May 4, 2010. http://www.nrcan.gc.ca/eneene/science/perdprde-eng.php Nature Conservancy, Western Pennsylvania Conservancy and Audubon Pennsylvania. <u>Pennsylvania Energy Impacts Assessment Report 1: Marcellus Shale Natural Gas and Wind</u>.

November 15 2010

http://www.nature.org/media/pa/pa_energy_assessment_report.pdf

Neslin, David. Colorado Oil and Gas Commission. <u>Testimony Before The Subcommittee On Water And Wildlife Committee On Environment And Public Works United States Senate . Joint Hearing on Natural Gas Drilling, Public Health and Environmental Impacts</u>. April 12, 2011.

http://epw.senate.gov/public/index.cfm?FuseAction=Files.View&FileStore_id=31b8ea19-a38b-410e-942e-2c12f9b08784

New Brunswick Department of Environment. <u>Guidelines to the Water Supply Source Assessment Process</u>. July, 2004.

http://www.gnb.ca/0009/0021-e.pdf

New Brunswick Department of Environment. <u>Oil, Shale Gas and Natural Gas Exploration in New Brunswick - Environmental Review and Approval Process</u>. 2011a.

http://www.gnb.ca/0009/0377/0003/index-e.asp

New Brunswick Department of Environment. <u>A Guide to Environmental Impact Assessment in New Brunswick</u>. May 2011b.

http://www.gnb.ca/0009/0377/0002/GuideEnvironmentalImpactAssessment.pdf

New Brunswick Department of Natural Resources. <u>Regulating Oil And Natural Gas Exploration and Development in New Brunswick.</u> 2010

http://www.gnb.ca/0078/minerals/PDF/oil_gas_dev_NB-e.pdf

New Brunswick Natural Gas Group. <u>Report: Provincial Forum on Natural Gas Development</u>. June 23, 2011.

http://nben.ca/en/reference-library/category/52-natural-gas

New Jersey. Office of the Governor. <u>Evaluation of Environmental Impacts of Hydraulic Fracturing</u>. Accessed November, 2011.

http://www.state.nj.us/governor/news/news/552011/approved/20110825c.html

New Mexico Environment Department. <u>Frequently Asked Questions About Calculating Tank-Flashing Emissions for the 2005 Emissions Inventories</u>. 2005 http://www.nmenv.state.nm.us/

New York City Department of Environmental Protection. <u>Final Impact Assessment Report - Impact Assessment of Natural Gas Production in the New York City Water Supply Watershed</u>. December, 2009.

http://www.nyc.gov/html/dep/pdf/natural_gas_drilling/12_23_2009_final_assessment_report.pdf

New York Department of Environmental Conservation. <u>Guidance Document DEP-00-1 - Assessing and Mitigating Noise Impacts</u>. February, 2001.

http://www.dec.ny.gov/docs/permits_ej_operations_pdf/noise2000.pdf

New York Department of Environmental Conservation. <u>Guidance Document DEP-00-2 - Assessing and Mitigating Visual Impacts</u>. July, 2000.

http://www.dec.ny.gov/docs/permits_ej_operations_pdf/visual2000.pdf

New York Department of Environmental Conservation. <u>Draft supplement generic environmental impact statement 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 <u>other low-permeability gas reservoirs</u>. September, 2009 http://www.dec.ny.gov/energy/58440.html</u>

New York Department of Environmental Conservation. <u>Preliminary Revised Draft SGEIS on the Oil, Gas and Solution Mining Regulatory Program - Horizontal Drilling and High-Volume Hydraulic Fracturing in the Marcellus Shale and Other Low-Permeability Gas Reservoirs.</u> July, 2011. http://www.dec.ny.gov/energy/75370.html

(Note this reference was subsequently replaced by the following reference at the same internet address)

New York Department of Environmental Conservation. <u>Preliminary Revised Draft SGEIS on the Oil, Gas and Solution Mining Regulatory Program - Horizontal Drilling and High-Volume Hydraulic Fracturing in the Marcellus Shale and Other Low-Permeability Gas Reservoirs.</u> September, 2011. http://www.dec.ny.gov/energy/75370.html

New York Department of Environmental Conservation. <u>Fact Sheet: What we Learned from Pennsylvania</u>. 2011a.

http://www.dec.ny.gov/docs/administration_pdf/pafactsheet072011.pdf

New York Department of Environmental Conservation. <u>Fact Sheet: 2011 Recommendations For Permitting High-Volume Hydraulic Fracturing In New York State.</u> 2011b http://www.dec.ny.gov/docs/materials_minerals_pdf/sgeisgenfs092011.pdf New York Department of Environmental Conservation. <u>Proposed Supplementary permit conditions for high-volume hydraulic fracturing - Draft Supplemental Generic Environmental Impact Statement</u> (Appendix 10 of the Generic EIS) July, 2011c.

http://www.dec.ny.gov/docs/materials_minerals_pdf/ogprdsgeisapp2.pdf

New York Department of Environmental Conservation. <u>High Volume Hydraulic Fracturing Proposed Regulations.</u> Accessed November, 2011d.

http://www.dec.ny.gov/regulations/77353.html

New York Department of Environmental Conservation. <u>Proposed Express Terms 6 NYCRR Parts 550 through 556 and 560 Subchapter B: Mineral Resources.</u> Accessed January, 2012. http://www.dec.ny.gov/regulations/77401.html

New York Department of Transportation. <u>Draft Discussion Paper. Potential Impacts of Marcellus</u> Shale Gas Development. June, 2011.

http://un-naturalgas.org/NYSDOT%20Transportation%20Impacts%20Paper.pdf

New York State. Office of the State Comptroller. <u>Natural Gas Damage Compensation Fund (Comptroller's Program Bill # 20)</u>. August, 2011.

http://www.osc.state.ny.us/legislation/2011-12/oscb20.htm

North Carolina Department of Environment and Natural Resources. <u>Session Law 2011-276</u> Accessed November, 2011.

http://portal.ncdenr.org/web/guest/denr-study

Northrup, James. <u>Potential Leaks From High Pressure Hydro-Fracking Of Shale</u>, September 8, 2010

http://63.134.196.109/documents/10nov11 edit NorthrupEPAFinal9-12-10.pdf

Nova Scotia Environment. <u>Review of Hydraulic Fracturing in Nova Scotia - What we Heard.</u> June, 2011

http://www.gov.ns.ca/nse/pollutionprevention/docs/Consultation.Hydraulic.Fracturing-What. We.Heard.pdf

Nova Scotia Environment. Final <u>Scope - Review of Hydraulic Fracturing in oil and gas operations in</u> Nova Scotia. June, 2011

http://www.gov.ns.ca/nse/pollutionprevention/docs/Consultation.Fracturing.Scope.pdf

Nova Scotia Environment. Update on Hydraulic Fracturing Review. August, 2011. http://www.gov.ns.ca/nse/pollutionprevention/docs/Hydraulic.Fracturing.Web.Update-2011.08.pdf Ohio. Department of Natural Resources. <u>Best Management Practices for Pre-Drilling Water Sampling</u>. April 28, 2005.

http://www.ohiodnr.com/oil/watersampling_bmp/tabid/23361/Default.aspx

Ohio. Department of Natural Resources. Report on the Investigation of the Natural Gas Invasion of Aquifers in Bainbridge Township of Geauga County, Ohio. September 1, 2008. http://s3.amazonaws.com/propublica/assets/natural_gas/ohio_methane_report_080901.pdf

Ohio Division of Mineral Resources Management. <u>Topical Summary of Ohio Oil and Gas Law</u>. March 2011.

http://www.dnr.state.oh.us/portals/11/oil/pdf/summary_oil-gas.pdf

Oklahoma Geological Survey. <u>Examination of Possibly Induced Seismicity from Hydraulic Fracturing in the Eola Field, Garvin County, Oklahoma.</u> August, 2011. http://www.ogs.ou.edu/pubsscanned/openfile/OF1_2011.pdf

O'Meara, Dina. Calgary Herald. <u>Regulators say hydraulic fracturing may have caused oil spill on farm near Innisfail</u>. January 17, 2012.

http://www.calgaryherald.com/technology/Regulators+hydraulic+fracturing+have+caused+spill+farm+near+Innisfail/6003589/story.html#ixzz1kauhGSTq

Osborne, Stephen G. et. al. <u>Methane Contamination of Drinking Water Accompanying Gas-Well Drilling and Hydraulic Fracturing</u>. Duke University. May, 2011 http://www.pnas.org/content/early/2011/05/02/1100682108

Parfitt, Ben. <u>Fracture Lines: Will Canada's Water be Protected in the Rush to Develop Shale Gas?</u> http://www.powi.ca/pdfs/groundwater/Fracture%20Lines_English_Oct14Release.pdf

Parfitt, Ben. <u>Fracking up our Water, Hydro Power and Climate: BC's reckless pursuit of shale gas.</u> November, 2011.

http://www.policyalternatives.ca/sites/default/files/uploads/publications/BC%20Office/2011/11/CCPA-BC_Fracking_Up.pdf

Parliament of Canada - <u>Standing Committee on Natural Resources 40th Parliament, 3rd Session - Evidence.</u> February 1, 2011

http://www.parl.gc.ca/HousePublications/Publication.aspx?Language=E&Mode=1&Parl=40&Ses=3 &DocId=4918403&File=0

Patal, Tara. <u>France to Keep Fracking Ban to Protect Environment, Sarkozy Says</u>. Bloomberg Businessweek. October 4, 2011.

http://www.businessweek.com/news/2011-10-04/france-to-keep-fracking-ban-to-protect-environment-sarkozy-says.html

Pembina Institute. <u>At a Cross-Roads: Achieving a Win-Win From Oil and Gas Developments in the Northwest Territories</u>. January, 2010.

http://gordonfoundation.ca/sites/default/files/publications/TaylorEtAl_2010_AtACrossroads-Oil-GasRevenuesInTheNWT.pdf

Pembina Institute. <u>Shale Gas in British Columbia: Risks to B.C.'s Water Resources</u>, September, 2011. http://pubs.pembina.org/reports/shale-and-water.pdf

PennEnvironment Research and Policy Center. <u>In the Shadow of the Marcellus Boom</u>
<u>How Shale Gas Extraction Puts Vulnerable Pennsylvanians at Risk</u>. May, 2011.

http://www.pennenvironment.org/uploads/5e/6c/5e6c9f39a5c7e76b42b6cafc8bedd45f/In-the-Shadow-of-the-Marcellus-Boom.pdf

Pennsylvania Code. Section 78.51. <u>Protection of Water Supplies.</u> February 5, 2011a http://www.pacode.com/secure/data/025/chapter78/s78.51.html

Pennsylvania Code. Subchapter D. <u>Well Drilling, Operation and Plugging</u>. February 5, 2011b http://www.pabulletin.com/secure/data/vol41/41-6/239a.html

Pennsylvania Code. Section 78.85. <u>Cement Standards</u>. February 5, 2011c http://www.pacode.com/secure/data/025/chapter78/s78.85.html

Pennsylvania Code. Section 78.85. <u>Gas Mitigation Response</u>. February 5, 2011d http://www.pacode.com/secure/data/025/chapter78/s78.89.html

Pennsylvania Code. Section 78.83c. Intermediate and Production Casing. February 5, 2011e http://www.pacode.com/secure/data/025/chapter78/s78.83c.html

Pennsylvania Department of Environmental Protection. <u>Marcellus Shale Training.</u> 2011. http://www.dep.state.pa.us/dep/deputate/minres/oilgas/new_forms/ Marcellus/2011MarcellusTraining.htm

Pennsylvania Department of Environmental Protection. <u>Northeastern Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report</u>. January 12, 2011. http://www.dep.state.pa.us/dep/deputate/airwaste/aq/aqm/docs/Marcellus_NE_01-12-11.pdf Pennsylvania Department of Environmental Protection. <u>North-Central Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report</u>. May, 2011.

http://www.dep.state.pa.us/dep/deputate/airwaste/aq/aqm/docs/Marcellus_NC_05-06-11.pdf

Pennsylvania Department of Environmental Protection. <u>Southwestern Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report.</u> November 1, 2010.

http://www.dep.state.pa.us/dep/deputate/airwaste/aq/aqm/docs/Marcellus_SW_11-01-10.pdf

Pennsylvania Department of Environmental Protection. <u>Determination letter regarding results of investigation of water well quality complaint (Stroud)</u>. July 7, 2011.

http://www.chiefog.com/stroud/DEP Letter 07-07-2011.pdf

Pennsylvania Department of Environmental Protection (Technical Advisory Board Oil and Gas Management). Report of Cabot Oil & Gas Corporation's Utilization of Effective Techniques for Protecting Fresh Water Zones/Horizons During Natural Gas Drilling – Completion and Plugging Activities. June 23, 2010.

http://www.cabotog.com/pdfs/Dr_Bob_Watson_WhitePaper_101010.pdf

Pennsylvania - Environmental Quality Board <u>Rules And Regulations Title 25—Environmental Protection</u> - [25 PA. CODE CH. 78]Oil and Gas Wells [41 Pa.B. 805] [Saturday, February 5, 2011] http://www.pabulletin.com/secure/data/vol41/41-6/239.html

Pennsylvania Environmental Council. <u>Developing the Marcellus Shale - Environmental Policy and Planning Recommendations for the Development of the Marcellus Shale Gas Play in Pennsylvania</u> July 2010

http://marcellus.pecpa.org/wp-content/uploads/2011/06/Developing-the-Marcellus-Shale.pdf

Pennsylvania General Assembly. House Bill 2213. May 25, 2010 http://www.legis.state.pa.us/CFDOCS/Legis/PN/Public/btCheck.cfm?txtType=PDF&sessYr=2009&sessInd=0&billBody=H&billTyp=B&billNbr=2213&pn=3821

Pennsylvania General Assembly. <u>House Bill 833</u>. March 1, 2011 http://www.legis.state.pa.us/cfdocs/billinfo/bill_history.cfm?syear=2011&sind=0&body=H&type=B &bn=833

Pennsylvania General Assembly. <u>House Bill 1100</u>. November 14, 2011. http://www.legis.state.pa.us/cfdocs/billinfo/billinfo.cfm?syear=2011&sind=0&body=S&type=B&bn=1100 Pennsylvania General Assembly. <u>House Bill 1950</u>. February 14, 2012. http://www.legis.state.pa.us/cfdocs/billinfo/billinfo.cfm?syear=2011&sind=0&body=H&type=B&BN=1950

Pennsylvania Governor's Marcellus Shale Advisory Commission. <u>Governor's Marcellus Shale Advisory Commission Report</u>. July 22, 2011.

http://files.dep.state.pa.us/PublicParticipation/MarcellusShaleAdvisoryCommission/MarcellusShaleAdvisoryPortalFiles/MSAC_Final_Report.pdf

Pennsylvania Office of the Governor. <u>Governor Corbett Announces Plans to Implement Key Recommendations of Marcellus Shale Advisory Commission</u>. October 3, 2011 http://www.environmentallawresource.com/2011/10/articles/marcellus-shale-1/pennsylvania-governor-releases-plan-for-marcellus-shale-impact-fee-and-new-drilling-regulations/

Pennsylvania Public Utility Commission. Gas Safety Division. <u>Stray Gas Evaluation</u>. http://pa.water.usgs.gov/projects/energy/stray_gas/presentations/3_840_Graeser.pdf

Perciasepe, Bob. Deputy Administrator, U.S. Environmental Protection Agency. <u>Testimony</u>
<u>Before The Subcommittee On Water And Wildlife Committee On Environment And Public Works</u>
<u>United States Senate</u>. <u>Joint Hearing on Natural Gas Drilling</u>, <u>Public Health and Environmental</u>
<u>Impacts</u>. April 12, 2011.

http://epw.senate.gov/public/index.cfm?FuseAction=Files.View&FileStore_id=1596c2da-2e57-460c-8822-ccf449ca791e

Petroleum Research Atlantic Canada. <u>New Brunswick Onshore Oil and Natural Gas Well Abandonment Study.</u> 2004

http://www.pr-ac.ca/files/files/WellAbandonment_RPT_02Nov04.pdf

Petroleum Services Association of Canada. <u>Product Listing for Potential Toxicity</u>. <u>http://www.psac.ca/industry-info/mud-list</u>

Philadelphia. Joint Committees on Transportation and Public Utilities and the Environment. <u>Marcellus Shale Gas Drilling's Impact on Philadelphia</u>. December, 2010.

http://protectingourwaters.wordpress.com/2011/01/24/final-recommendations-marcellus-shale-report-city-council-of-philadelphia%E2%80%99s-joint-committees-on-transportation-and-public-utilities-and-the-environment-september-28-2010/

Pinchott Institute for Conservation. <u>Assessing the Environmental Effects of Marcellus Shale Gas Development: The State of the Science.</u> April 1, 2011. http://www.pinchot.org/gp/EffectsofMarcellusShale Pless, Jacquelyn. <u>The Fracking Debate: A Policymaker's Guide</u>. National Conference of State Legislatures. April, 2012.

http://www.ncsl.org/documents/energy/frackingdebateguide412.pdf

PR Newswire. Westmont Prepares to Enter \$32 Billion Hydraulic Fracturing Market With "FracSolv" July 12, 2011.

http://www.prnewswire.com/news-releases/westmont-prepares-to-enter-32-billion-hydraulic-fracturing-market-with-fracsolv-125409628.html

Québec. Bureau d'audiences publiques sur l'environnement (BAPE). <u>Développement durable de l'industrie des gaz de schiste au Québec Rapport d'enquête et d'audience publique.</u> Février 2011. http://www.bape.gouv.gc.ca/sections/rapports/publications/bape273.pdf

Québec. Comité de l'évaluation environnementale stratégique sur les gaz de schiste. Plan De Réalisation De L'évaluation Environnementale Stratégique Sur Les Gaz De Schiste 28 octobre 2011.

http://www.ees-gazdeschiste.gouv.qc.ca/

Québec. <u>Report of Quebec Sustainable Development Commissioner Jean Cinq-Mars.</u> March, 2011 http://www.vgq.qc.ca/en/en_publications/en_rapport-annuel/en_fichiers/en_Highlights2010-2011-CDD.pdf

Québec. <u>Projets de règlement</u> - Partie 2 Gazette Officielle Du Québec, 6 mai 2011, 143e année, no 18A 1677A . May, 2011

http://www2.publicationsduquebec.gouv.qc.ca/dynamicSearch/telecharge.php?type=11&file=TMF1118A.PDF

Québec. <u>Transmission de renseignements liés à l'exécution decertains travaux de forage et de fracturation de puitsgaziers ou pétroliers</u> - - Partie 2 Gazette Officielle Du Québec, 6 mai 2011, 143e année, no 18A 1677A . May, 2011

http://www.mddep.gouv.qc.ca/publications/projet-reglement/reg-transmission-forage-puits.pdf

Railroad Commission of Texas. <u>Hearing to Consider Whether Operation of the Range Production</u>
<u>Company Butler Unit Well N0.1h and Teal Unit Well N0.1h, are Causing or Contributing to</u>
<u>Contamination of Certain Domestic Water Wells.</u> March 7, 2011

http://www.shaledigest.com/documents/legal/RRC%20Examiners%20Report%20&%20Proposal%20For%20Decision%20Range%20Docket%207B-0268629%203-7-2011.pdf

Railroad Commission of Texas. <u>News Release - Texas Railroad Commissioner David Porter Vows to Push for Rulemaking Process for Frac Fluid Disclosure to be Completed by July 1, 2012.</u> June 3, 2011.

http://www.rrc.state.tx.us/commissioners/porter/press/060311.php

Ridley, Matt. <u>The Shale Gas Shock</u>. Global Warming Policy Foundation. May, 2011. http://www.thegwpf.org/images/stories/gwpf-reports/Shale-Gas_4_May_11.pdf

Reilly, Steve. N.Y. roads expected to take a beating from gas drilling- Municipalities have options to keep infrastructure safe. October 28, 2011.

http://www.pressconnects.com/article/20111028/NEWS01/110280409/N-Y-roads-expected-take-beating-from-gas-drilling?odyssey=tab|topnews|text|FRONTPAGE

Reuters. Ottawa says can intervene in shale gas drilling. June 16, 2011 http://ca.reuters.com/article/businessNews/idCATRE75F5C520110616

Rhodes, Ted. <u>B.C. Producers Agree to Fracking Disclosure</u>. Calgary Herald. September 10, 2011. http://www.calgaryherald.com/technology/producers+agree+fracking+disclosure/5378742/story. html

Rouse, Shawn. <u>Balancing risk versus reward.</u> CBC News. November 28, 2011. http://www.cbc.ca/news/canada/new-brunswick/story/2011/11/25/nb-f-shale-gas-shawn-rouse-140.html

Rubinkam, Michael. <u>Driller Wins Approval to Halt Water to Pa. Town</u>. Associated Press. October 19, 2011.

http://hosted.ap.org/dynamic/stories/U/US_GAS_DRILLING_DIMOCK?SITE=AP&SECTION=HOME&TEMPLATE=DEFAULT&CTIME=2011-10-19-18-14-46

Saskatchewan Energy and Mines. <u>Hydraulic Fracturing Fluids and Propping Agents Containment</u> and Disposal Guidelines. October 1, 2000.

http://www.er.gov.sk.ca/adx/aspx/adxGetMedia.aspx?DocID=3891,3620,3384,5460,2936,Documents&MediaID=5010&Filename=PDB+ENV+11+-+GL2000-01+Frac+Fluid+and+Sand+Disposal+Guidelines.pdf

Saskatchewan Energy and Mines. <u>Draft NORM Storage Requirements</u>. July 2003. http://www.er.gov.sk.ca/adx/aspx/adxGetMedia.aspx?DocID=3891,3620,3384,5460,2936,Document s&MediaID=5013&Filename=PDB+ENV+14+-+Appendix+6+of+S-01+Draft+NORM+Storage+Requirements+July+2003.pdf Sapien, Joaquin and Sabrina Shankman. <u>Drilling Wastewater Disposal Options in N.Y. Report Have Problems of Their Own.</u> ProPublica Dec. 29, 2009

http://www.propublica.org/article/drill-wastewater-disposal-options-in-ny-report-have-problems-1229

Schlumberger. Oilfield Glossary. 2011. http://www.glossary.oilfield.slb.com/

Scientific Alliance. <u>Shale gas: good news or bad?</u> Accessed November 1, 2011. http://www.scientific-alliance.org/scientific-alliance-newsletter/shale-gas-good-news-or-bad

Scientific American. <u>Safety First, Fracking Second</u>. October 19, 2011. http://www.scientificamerican.com/article.cfm?id=safety-first-fracking-second

Septon, Pat. "Looking Under the Hood" on Shale Gas. CBC News. November 28, 2011. http://www.cbc.ca/news/canada/new-brunswick/story/2011/11/25/nb-f-shale-gas-pat-septon-240. html

Slavin, Dmitry, and Lindsey Trachtenburg. <u>Recommendations for Amending Pennsylvania's Regulatory Framework for Natural Gas Drilling</u>. Yale Law School. May 2010 http://www.ville.mont-saint-hilaire.qc.ca/site/pages/Annexe%205%20-%20M%C3%A9moire%20-%20BAPE%20-%20Shale.pdf

Southwestern Energy. <u>Understanding Frac Fluid</u>. Undated information sheet

Statehouse News Online. <u>PA House, Senate pass gas drilling fee bills 3 days apart</u>. November 17, 2011

http://statehousenewsonline.com/tag/impact/

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Hydraulic Fracturing Guidelines</u>, 2010

http://groundwork.iogcc.org/sites/default/files/HF%20Guideline%20Web%20posting.pdf

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Colorado Hydraulic Fracturing State Review</u>. October, 2011.

http://www.strongerinc.org/documents/Colorado%20HF%20Review%202011.pdf

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Louisiana Hydraulic Fracturing State Review</u>. March, 2011.

http://www.strongerinc.org/documents/Final%20Louisiana%20HF%20Review%203-2011.pdf

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Ohio Hydraulic Fracturing State Review</u>. March, 2011.

http://www.strongerinc.org/documents/Final%20Report%20of%202011%20OH%20HF%20Review.pdf

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Oklahoma Hydraulic Fracturing State Review</u>. January, 2011.

http://www.strongerinc.org/documents/Final%20Report%20of%20OK%20HF%20Review%201-19-2011.pdf

State Review of Oil and Gas Environmental Regulations (STRONGER). <u>Pennsylvania Hydraulic Fracturing State Review</u>. September, 2010.

http://www.strongerinc.org/documents/PA%20HF%20Review%20Print%20Version.pdf

State University of New York. <u>Geochemical Characteristics Of Leachate From The Marcellus Shale, Otsego County, New York; Results Of A 100-Day Laboratory Test</u>. Accessed October, 2011. http://gsa.confex.com/gsa/2010NE/finalprogram/abstract_170083.htm

Steffen, Jordan. <u>5.3 Quake in Trinidad, Colo., Area Unnerves Region's Residents.</u> August 24, 2011. <u>http://www.denverpost.com/news/ci_18744329</u>

Sumi, Lisa. <u>Environmental Concerns and Regulatory Initiatives Related to Hydraulic Fracturing in Shale Gas Formations: Potential Implications for North American Gas Supply</u>. Council of Canadians. September 21, 2010

http://www.canadians.org/energy/documents/fracking/report-fracturing-1010.pdf

Susquehanna River Basin Commission. <u>Final Rule Making: Natural Gas Development Projects</u>, January, 2009

http://www.srbc.net/programs/projreviewmarcellus.htm

Sutfin, Angela. <u>Leaked Dot Paper Warns Of Road Damage From Drilling</u>. GateHouse News Service August 2, 2011.

http://www.chronicle-express.com/news/x555036971/Leaked-DOT-paper-warns-of-road-damage-from-drilling

Temple University. <u>Methane Gas from Marcellus Shale Drilling</u>. Accessed, October, 2011. http://www.temple.edu/newsroom/2011_2012/07/stories/Marcellus_Shale_drilling.htm

Texas Commission on Environmental Quality. <u>Ambient Air Quality Sampling Results Near Oil and Natural Gas Facilities by County</u>. August 31, 2011.

http://www.tceq.texas.gov/toxicology/barnettshale/samplingresults

Texas Department of State Health Services. <u>DISH, Texas Exposure Investigation – Final Report</u>. May 12, 2010.

http://www.dshs.state.tx.us/epitox/consults/dish_ei_2010.pdf

Texas. House Research Organization. Bill HB3328. <u>Disclosure of the composition of hydraulic fracturing fluids</u>. May 11, 2011

http://www.hro.house.state.tx.us/pdf/ba82r/hb3328.pdf#navpanes=0

Texas Oil and Gas Accountability Project. <u>Drill-Right Texas</u>: <u>Best Oil & Gas Development Practices</u> <u>for Texas</u> February 12, 2010.

http://www.earthworksaction.org/pubs/Drill_Right_Texas_FINAL.pdf

Texas Oil and Gas Accountability Project. <u>How the Texas Natural Gas Boom Affects Health and Safety.</u> June 2011.

http://earthworksaction.org/FLOWBACK-TXOGAP-HealthReport-lowres.pdf

Texas, Town of Dish. <u>Town of DISH Texas Ambient Air Monitoring Analysis Final Report.</u> September 15, 2009.

http://townofdish.com/objects/DISH_-_final_report_revised.pdf

Texas Water Development Board. <u>Assessment of Groundwater Use in the Northern Trinity Aquifer Due To Urban Growth and Barnett Shale Development</u>. January 2007. http://www.twdb.state.tx.us/RWPG/rpgm_rpts/0604830613_BarnetShale.pdf

Tioga County New York. <u>Resource Binder: Natural Gas Exploration & Development.</u> Winter, 2010. http://www.tiogacountyny.com/images/stories/PDFs/government/TING/TING_RevisedResource-Binder_5_2_11.pdf

Tucza, Anna. <u>The Effectiveness Of Alberta's Solutions To The Orphan Well Problem</u>. December, 2004.

http://www.business.ualberta.ca/Centres/CABREE/NaturalResources/~/media/University%20of%20 Alberta/Faculties/Business/Faculty%20Site/Centres/CABREE/Documents/NaturalResources/LandUse/OrphanPaperCorrected.ashx

Ubinger, John W. Jr. <u>Testimony Before The Subcommittee On Water And Wildlife Committee On Environment And Public Works United States Senate</u>. <u>Joint Hearing on Natural Gas Drilling</u>, <u>Public Health and Environmental Impacts</u>. April 12, 2011.

http://epw.senate.gov/public/index.cfm?FuseAction=Hearings.Testimony&Hearing_ID=270378f4-802a-23ad-4d07-c6b1fd44510b&Witness_ID=529aa3c6-9a49-4112-a60b-5a256922bebe

United Kingdom House of Commons. <u>Energy and Climate Change Committee - Fifth Report Shale Gas</u>. May, 2011

http://www.publications.parliament.uk/pa/cm201012/cmselect/cmenergy/795/79502.htm

United States Congress (Congressional Research Service). <u>The EPA Draft Report of Groundwater Contamination Near Pavillion, Wyoming: Main Findings and Stakeholder Responses</u>. January 25, 2012.

http://wyofile.com/wp-content/uploads/2012/01/R42327-2.pdf

United States Department of Energy, Office of Fossil Energy . <u>State Oil And Natural Gas Regulations Designed To Protect Water Resources</u> (May 2009)

http://www.gwpc.org/e-library/documents/general/State%20Oil%20and%20Gas%20Regulations%20Designed%20to%20Protect%20Water%20Resources.pdf

United States Department of Energy. <u>Drilling Waste Management Information System</u>. http://web.ead.anl.gov/dwm/regs/index.cfm#state

United States Department of Energy. National Energy Technology Laboratory. <u>Produced Water Management Information System</u>. (accessed May, 2011) http://www.netl.doe.gov/technologies/PWMIS/intropw/index.html

United States Department of Energy. Shale Gas Subcommittee of the Secretary of Energy Advisory Board. Ninety-Day Report. August 11, 2011 http://www.shalegas.energy.gov/resources/081111_90_day_report.pdf

United States Department of Energy. Shale Gas Subcommittee of the Secretary of Energy Advisory Board. Second Ninety-Day Report. November, 2011 http://www.shalegas.energy.gov/index.html

United States Department of the Interior. Bureau of Land Management. Review of Commercial Rules for the Development of Oil Shale Resources. Accessed October, 2011. http://www.blm.gov/wo/st/en/prog/energy/oilshale_2.html

United States Department of State. <u>Global Shale Gas Initiative (GSGI).</u> Accessed October, 2011. http://www.state.gov/s/ciea/gsgi/

United States Energy Information Administration . <u>Voluntary Reporting of Greenhouse Gases Program</u> January 31, 2011

http://www.eia.doe.gov/oiaf/1605/coefficients.html

United States Energy Information Administration. <u>Natural Gas Consumption in the United States</u>, <u>2006-2011</u>. May, 2011.

http://www.eia.doe.gov/pub/oil_gas/natural_gas/data_publications/natural_gas_monthly/current/pdf/table_02.pdf

United States Environmental Protection Agency. <u>Evaluation of Impacts to Underground Sources of Drinking Water by Hydraulic Fracturing of Coalbed Methane Reservoirs Study.</u> 2004. http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/wells_coalbedmethanestudy.cfm

United States Environmental Protection Agency. <u>Natural Gas STAR Program Basic Information</u>. December 2010.

http://www.epa.gov/gasstar/basic-information/index.html

United States Environmental Protection Agency. <u>Proposed Amendments to Air Regulations for the Oil and Natural Gas Industry</u> - Fact Sheet. July 28, 2011.

http://www.epa.gov/airquality/oilandgas/pdfs/20110728factsheet.pdf

United States Environmental Protection Agency. <u>Case Study Locations for Hydraulic Fracturing Study.</u>

 $http://water.epa.gov/type/groundwater/uic/class 2/hydraulicfracturing/case_studies.cfm$

United States Environmental Protection Agency. <u>Plan to Study the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources</u>. November 3, 2011 http://water.epa.gov/type/groundwater/uic/class2/hydraulicfracturing/upload/hf_study_plan_110211_final_508.pdf

United States Environmental Protection Agency. <u>EPA Pavillion Groundwater Investigation 2010-2011 Sampling Summary of Results and Next Steps.</u> November 9, 2011 http://www.epa.gov/region8/superfund/wy/pavillion/

United States Environmental Protection Agency. <u>Natural Gas Wastewater Standards</u>. Accessed October, 2011.

http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/91e7fadb4b114c4a8525792f00542001! OpenDocument

United States Environmental Protection Agency. <u>EPA Comments on Revised Draft NYSDEC Revised dSGEIS for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs</u> January 11, 2012.

http://www.epa.gov/region2/newsevents/hydro.html

United States Environmental Protection Agency. <u>EPA Comments on Proposed Revisions to the Official Compilation of Codes, Rules and Regulations of the State of New York Regarding Oil and Natural</u>

<u>Gas Extraction and Production Activities</u>. January 11, 2012a.

http://www.epa.gov/region2/newsevents/hydro.html

United States Environmental Protection Agency. <u>Comments on New York State Department of Environmental Conservation Draft SPDES General Permit for Stormwater Discharges Associated with High Volume Hydraulic Fracturing Operations</u>. January 2012b http://www.epa.gov/region2/newsevents/hydro.html

United States Geological Survey. <u>Poster of the 2010 - 2011 Arkansas Earthquake Swarm.</u> 2011. http://earthquake.usgs.gov/earthquakes/eqarchives/poster/2011/20110228.php

United States Geological Survey. <u>Determining Potential Effects of Fayetteville Shale Gas Extraction on Water Resources</u>. Accessed November, 2011.

http://www.usgs.gov/newsroom/article.asp?ID=2825

United States Geological Survey. <u>Cumulative impact study on water withdrawals from hydraulic fracturing of Marcellus Shale natural gas wells in the Delaware River Basin</u>. Accessed November, 2011

http://www.americanrivers.org/newsroom/blog/1-million-to-study-cumulative-impact-of-water-withdrawals-from-fracking-7-26-2010.html

United States Government Accountability Office. <u>Federal Oil and Gas Leases: Opportunities Exist to Capture Vented and Flared Natural Gas</u>. GAO-11–34 2010a http://www.gao.gov/new.items/d1134.pdf

United States Government Accountability Office. Oil and Gas Bonding Requirements and BLM expenditures to Reclaim Orphaned Wells. GAO-10-245 2010b http://www.gao.gov/products/GAO-10-245

United States Government Accountability Office. A Better and Coordinated Understanding of Water Resources Could Help Mitigate the Impacts of Potential Oil Shale Development October 2010 http://www.gao.gov/new.items/d1135.pdf

United States House of Representatives, Committee on Energy And Commerce Minority Staff. <u>Chemicals Used In Hydraulic Fracturing</u>. April, 2011

http://democrats.energycommerce.house.gov/sites/default/files/documents/Hydraulic%20Fracturing%20Report%204.18.11.pdf

United States House of Representatives. <u>A Bill To repeal the exemption for hydraulic fracturing in the Safe Drinking Water Act, and for other purposes</u>. 111th Congress, 1st Session. June 9, 2009. http://s3.amazonaws.com/propublica/assets/natural_gas/frac_act_house_090609.pdf

United States Senate. <u>A Bill to amend the Safe Drinking Water Act to Repeal a Certain Exemption for Hydraulic Fracturing, and for Other Purposes</u>. 111th Congress, 1st Session http://s3.amazonaws.com/propublica/assets/natural_gas/frac_act_senate_090609.pdf

United States Senate Committee on Environment and Public Works. <u>Full Committee and Subcommittee on Water and Wildlife joint hearing entitled, "Natural Gas Drilling: Public Health and Environmental Impacts"</u> April 12, 2011.

http://epw.senate.gov/public/index.cfm?FuseAction=Hearings.Hearing&Hearing_ID=270378f4-802a-23ad-4d07-c6b1fd44510b

United States Senate Committee on Energy and Natural Resources. <u>Field Hearing: To examine Marcellus Shale Gas development and production in West Virginia.</u> November 14, 2011 http://energy.senate.gov/public/index.cfm?FuseAction=Hearings.Hearing&Hearing_ID=64e38f6d-b5d9-c133-d3d9-f295b33ed1c7

University of Arkansas. <u>Fayetteville Shale Water Resources Decision Support System.</u> Accessed October, 2011.

http://cast.uark.edu/home/research/environmental-studies/fayetteville-shale-water-resources-decision-support-system.html

University of Maryland. School of Public Policy. <u>Reconciling Shale Gas Development With Environmental Protection, Landowner Rights, and Local Community Needs</u>. July 2010 http://www.publicpolicy.umd.edu/files.php/faculty/nelson/660D%20--%20MARCELLUS%20SHALE%20GAS%20DEVELOPMENT,%20Final%20Report,%20%20July%2019th.docx

University of Maryland. School of Public Policy. <u>The Greenhouse Impact of Unconventional Gas For Electricity Generation</u>. October 25, 2011.

http://iopscience.iop.org/1748-9326/6/4/044008

University of Pittsburgh, Department of Environmental and Occupational Health, Graduate School of Public Health. <u>Implications for Disposal of Oil and Gas Flowback Fluids from Brine Treatment Plants</u>. March 25, 2011.

http://wellwatch.wordpress.com/2011/05/04/marcellusgasinfo-re-toxinsproduction-water-pa-treat-ment-facilities-2/

Veil, John. <u>Water Management Challenges in Marcellus Shale Gas Production.</u> Health Effects of Shale Gas Extraction Conference. University of Pittsburgh. November 19, 2010. http://mediasite.cidde.pitt.edu/mediasite/Viewer/?peid=c7d4c76ae1d74e15a531e8bcdfc50607

Volz, Dr Conrad Daniel. <u>Testimony Before The Subcommittee On Water And Wildlife Committee</u> <u>On Environment And Public Works United States Senate</u>. <u>Joint Hearing on Natural Gas Drilling</u>, <u>Public Health and Environmental Impacts</u>. April 12, 2011.

http://epw.senate.gov/public/index.cfm?FuseAction=Files.View&FileStore_id=57d1bfd4-9237-488e-999f-4e1e71f72e52

Wagner, Brad. <u>Overview of the Saskatchewan Orphan Well and Facility Liability Management Program.</u> Williston Basin Petroleum Conference. April 30, 2007. http://wbpc.ca/assets/docs/Wagner.pdf

Watson Theresa, and Stefan Bachu. <u>Evaluation of the Potential for Gas and CO2 Leakage Along Wellbores</u>. Society of Petroleum Engineers, Drilling and Completion. Volume 24. March, 2009. http://www.spe.org/ejournals/jsp/journalapp.jsp?pageType=Preview&jid=EDC&mid=SPE-106817-PA

West Virginia Legislature. Bill 4513. <u>A Bill relating to establishing requirements for Marcellus gas</u> well operations use of water resources. February 26, 2010.

http://www.legis.state.wv.us/bill_status/bills_text.cfm?billdoc=HB4513%20SUB.htm&yr=2010&sesstype=RS&i=4513

Wilderness Society. <u>Disclosure of Hydraulic Fracturing Fluids: Are States Doing a Good Enough</u> <u>Job?</u>

April, 2011.

http://www.shalegas.energy.gov/resources/tws_state_chemical_disclosure_requirements.pdf

Wilkes University. The Institute for Public Policy and Economic Development. <u>Policy Brief on Selected Provisions of Governor Tom Corbett's Proposed Marcellus Shale Industry Regulations</u> October 14, 2011.

http://energy.wilkes.edu/PDFFiles/Issues/IEER-Corbett.planresponse.pdf

Williams, David O. <u>Past earthquakes in southern Colorado studied for links to gas fracking, water disposal.</u> August 24, 2011.

http://coloradoindependent.com/97225/past-earthquakes-in-southern-colorado-studied-for-links-to-gas-fracking-water-disposal

Wiseman, Hannah. <u>Trade Secrets, Disclosure, and Dissent in a Fracturing Energy Revolution.</u> Columbia Law Review. January 27, 2011.

http://columbialawreview.org/assets/sidebar/volume/111/1_Wiseman.pdf

Work Safe B.C. <u>Proposed Amendments To Part 21: Blasting Operations In The Occupational Health And Safety Regulation.</u> September, 2010

http://www.worksafebc.com/regulation and policy/public hearings/assets/pdf/2011PublicHearing/Part21.pdf

World Oil. <u>Closed Loop Drilling System - A Viable Alternative to Reserve Waste Pits</u>. December, 2006

http://www.worldoil.com/December-2006-Closed-loop-drilling-system-A-viable-alternative-to-reserve-waste-pits.html

Worldwatch Institute. <u>Addressing the Environmental Risks From Shale Gas Development</u>. July, 2010.

http://www.worldwatch.org/files/pdf/Hydraulic%20Fracturing%20Paper.pdf

Worstall, Tim. <u>Shale Fracking Causes Earthquakes</u>. Forbes. October 17, 2011 http://www.forbes.com/sites/timworstall/2011/10/17/shale-fracking-causes-earthquakes/

Wyoming Department of Environmental Quality. <u>Oil and Gas Production Facilities Chapter 6, Section 2 Permitting Guidance</u>. March, 2010.

http://deq.state.wy.us/aqd/Oil%20 and%20 Gas/March%2020 10%20 FINAL%20 O&G%20 GUIDANCE. pdf

Wyoming Department of Environmental Quality, Wyoming Department of Health. <u>Screening Health Risk Assessment Sublette County, Wyoming.</u> January, 2011.

http://www.sublettewyo.com/DocumentView.aspx?DID=438

Wyoming Oil and Gas Conservation Commission. <u>Wyoming Oil And Gas Rules And Regulations</u> <u>Well Stimulation Rule Overview.</u> 2010

http://www.iogcc.state.ok.us/Websites/iogcc/Images/Tucson/Tom%20Doll%20General%20Session.pdf

Wyoming. Chapter 3 Operational Rules, Drilling Rules. http://soswy.state.wy.us/Rules/RULES/7928.pdf