



# **PLAINS CO<sub>2</sub> REDUCTION (PCOR) PARTNERSHIP (PHASE III) START ENVIRONMENTAL QUESTIONNAIRE FOR WILLISTON BASIN TEST SITE – MILESTONE M3**

*(for the period October 1, 2007, through September 30, 2009)*

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ENVIRONMENTAL QUESTIONNAIRE FOR WILLISTON BASIN TEST SITE –  
MILESTONE M3**

**PROJECT DESCRIPTION**

Activities will be conducted in an oil field in the U.S. portion of the Williston Basin to evaluate the potential for geological sequestration of CO<sub>2</sub> in an oil reservoir for the dual purposes of CO<sub>2</sub> sequestration and enhanced oil recovery (EOR). Phase I studies indicated that the Williston Basin oil fields may have over 500 million tons of CO<sub>2</sub> storage capacity associated with potential EOR operations. It is probable that the target injection zone for the project will be located at a depth of between 6000 and 12,000 ft.

**ENVIRONMENTAL SETTING**

It is anticipated that the project will take place at an ongoing hydrocarbon recovery site. The monitoring, mitigation, and verification (MMV) activities associated with this project are expected to be conducted within the boundaries of the previously impacted area. Mixed-grass prairie, with the dominating grasses being western wheatgrass and green needlegrass, is typical of the areas being considered for the test. The soil in the region is silt to sandy loams. The local climate is upper Great Plains with summer temperatures to 100°F, winter temperatures to –40°F, and average precipitation is 15–20 in./yr.

**MILESTONE**

Various portions of the National Environmental Policy Act (NEPA) document have been completed based on the knowledge of the general area in which the project is anticipated to occur. Once the project site is identified, information specific to that location can be added to the NEPA questionnaire. Additionally, MMV activities will be further defined and detailed in the NEPA document. Site maps and local emergency information will also be added.