

CX #8 Form 2A Stormwater Report and Site Specific Data Sheet

Kinder Morgan CO2 Company, LP

INTRODUCTION

This Form 2A stormwater report and Site Specific Data Sheet (SSDS) includes the Best Management Practices (BMPs) and reclamation plans for Kinder Morgan's proposed CX #8 well pad in accordance with Colorado Oil and Gas Conservation Commission's (COGCC) Form 2A and Colorado Department of Public Health and Environment (CDPHE) stormwater requirements. BMP diagrams and additional general stormwater information is included with Kinder Morgan's Master Stormwater Management Plan (MSWMP) for oil and gas construction activities for McElmo Dome and Doe Canyon. The MSWMP can be obtained from Kinder Morgan and is in accordance with CDPHE stormwater guidelines. The Kinder Morgan contact person is Phil Kennedy and his contact information is below:

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PROJECT DESCRIPTION

The proposed well pad would be located in an active agricultural field. The proposed access road would connect the proposed well pad to County Road Bb. Slopes within the proposed project average 0-3 percent. Disturbance would include the removal of top soil to create a level pad (470 feet by 550 feet) for drilling. The proposed access road would be 989 feet long within a 50-foot corridor for a total of 1.1 acres of disturbance. The wellhead will be the only item on the pad once the well goes to completion.

ESTIMATED TOTAL AREA OF THE SITE TO UNDERGO CLEARING, EXCAVATION, OR GRADING

The maximum disturbance associated with the proposed well pad would be 5.9 acres for the well pad and 1.1 acres for access road improvements for a total of 7.0 acres.

EXISTING SOIL

Parent materials found at the project site and surrounding areas include alluvium and eolian deposits. There are 2 surveyed soil-map units for the project area that are included in Table 1 including their drainage capabilities and wind and water erosion potentials (NRCS 2014¹).

Table 1. Soil map units for the project area (NRCS 2014¹).

| Soil Name | Drainage | Wind Erosion Potential | Water Erosion Potential |
|--|--------------|------------------------|-------------------------|
| Wetherill loam, 3 to 6 percent slopes | Well drained | Not Highly Erodible | Moderate |
| Wetherill loam, 6 to 12 percent slopes | Well Drained | Moderate | Severe |

¹ Natural Resources Conservation Service (NRCS). 2014. Web Soil Survey. Available online at: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>. Accessed January 2015.

DESCRIPTION OF EXISTING VEGETATION AND ESTIMATE OF PERCENT OF GROUND COVER

The proposed well pad and access road would be located in an active agricultural field.

NAME OF RECEIVING WATER AND TYPE OF OUTFALLS

The nearest perennial water—indicated on the U.S. Geological Survey topographic map—is Negro Canyon, located approximately 12.3 miles southwest of the project area. Drainage from the proposed project area generally flows southwest through Ruin Canyon into Negro Canyon and from there flows south/southwest into McElmo Creek. There are no other perennial water sources, wetlands, seeps, springs, or riparian areas within the proposed well pad or surrounding area.

PROJECT-SPECIFIC BMPs

The following listed BMPs are site-specific BMPs identified by Ecosphere during a field visit on January 16, 2015. BMP diagrams are included in the MSWMP. BMPs would be maintained or amended by Kinder Morgan as site conditions change throughout the construction and reclamation process. Stormwater inspections would occur as stipulated in the MSWMP and as required by the CDPHE. A map showing the BMP locations is attached. Site-specific BMPs will be installed pre-construction and during the construction process and will continue to be maintained until the site is determined to be finally stabilized per CDPHE requirements. Table 2 describes structural BMPs used at CX #8.

Table 2. Structural BMPs

| BMP | How It Works | Location |
|---------------------------------|---|--|
| Bonded Fiber Matrix (Tackifier) | Bonding agents provide durability to minimize water and wind erosion, while also allowing for optimal rainwater penetration into soil for vegetative growth. | Disturbed areas surrounding well pad and topsoil stockpiles. |
| Culvert Protection | Inlet and outlet protection prevent soil and debris from entering storm drain inlets and preventing scouring at outlets by reducing flow. | At culverts along access road. |
| Erosion Control Logs | Erosion control logs are made of fibrous material and work by trapping sediment. Erosion control logs must be trenched into the ground to be effective. | Around perimeter of the well pad and soil stockpiles. |
| Diversion Ditch with Wattles | The diversion ditch diverts run on around the well pad. | Diversion ditches would be located along the north and east sides of the well pad to capture runoff and divert around the well pad. Wattles would be located every 50 feet in the diversion ditch. |
| Fuel and Chemical Containment | Fuel and chemicals stored on-site will be within secondary containments to reduce the potential for spills or off-site releases. | Where needed. |
| Rock Check Dams | Rock check dams are constructed across a ditch to catch sediment. | Along the proposed access road where needed. |
| Tracking Control | An effective vehicle tracking control helps remove sediment (mud or dirt) from vehicle tires, reducing the potential for tracking onto off-site paved roadways. | Where needed. |
| Earth Berm | A compacted and stabilized earth berm greatly helps prevent any off-site releases. | Around perimeter of well pad. |
| Rock Armor | Rock armor is outlet/inlet protection consisting of a layer of angular rocks. The rocks slow stormwater flow, thereby reducing erosion and settling out sediment. | Installed on geotextile blankets at inlets and/or outlets of diversion ditches, drainpipes, and culverts. |

NON-STRUCTURAL BMPs

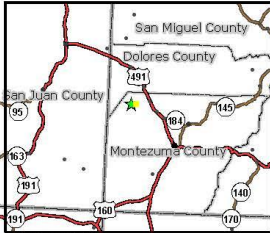

Table 3 includes non-structural BMPs that will be applied to the entire project area where needed beginning with construction and continuing until final stabilization is reached.

Table 3. Non Structural BMPs

| BMP | How It Works | Location |
|-------------------|---|---------------------------------------|
| Soil Roughening | Surface roughening creates small ridges and gullies with the teeth of the bucket on the front-end loader or with the grooves of tracked equipment. These ridges and gullies go across the slope (or along the contour of the slope), trapping stormwater and helping with revegetation. To create these ridges/gullies with tracked equipment, the equipment should be run up/down the slope. | All disturbed areas where needed. |
| Equipment Storage | All equipment will be contained within the ROW disturbance. | Within disturbance area where needed. |
| Rapid Reclamation | Rapid reclamation (surface contouring, surface roughening, seeding, and weed control) help to stabilize soil with vegetation and reduce runoff. | Within disturbance area where needed. |
| Dust Mitigation | Whenever needed, a water truck will be used to add moisture to the soil that will prevent the soil from becoming airborne and leaving the site. | Within disturbance area where needed. |

PROJECT BMP MAP



| | | |
|---|---|--|
|  | <ul style="list-style-type: none"> CX #8 Access Road Culverts and Outlet Protection Diversion Ditch Erosion Control Wattles | <ul style="list-style-type: none"> Rip Rap Soil Active Construction Graveled Surface for Industrial Use Streets Intermittent Stream |
|  | | <p>KINDER MORGAN CO₂ COMPANY, LP CX #8 Well Pad BMP Map Montezuma County, Colorado T38 North R18 West Section 8 Pleasant View 24k Quadrangle</p> |
| <p>0 100 200 400 Feet</p> | | <p>1:2,800 Date: 1/26/2015 <small>Coordinate System: NAD 1983 UTM Zone 13N</small></p> |