

Storm Water Management Plan

Project Name:

SITE DESCRIPTION			
Project Name and Location: (PARCEL #, Section, Township, & Range, and Address)	13 Left utility borehole (~1260' depth, 2550' long access road and 200' by 200' drill pad, parcels 945201002 and 945201001, Section 20, T5N, R66W	OWNER Name, Address, and Phone #	Parcel 945201002 owned by Ruth V. Swisher Trust, 2701 West Ave., Burlington, IA 52601. Parcel 945201001 owned by Myron J. Walker through the US Bank Real Estate Tax Dept., Box 64142, St. Paul, MN 55164. Twentymile Coal, LLC has surface and sub-surface rights based on the attached coal mining deed and warranty deed.
Description: (Purpose and Types of Soil Disturbing Activities)	Construction of a 2550' x 24' wide finished top width access road and 200' x 200' finished drill pad for a utility borehole into the Twentymile underground workings. The borehole will be used to pump a concrete mix into the underground workings.	CONTACT Name, Address, & Phone #	Michael Berding Twentymile Coal, LLC 29515 Routt County Road #27 Oak Creek, CO 80467 970-670-2762, 970-846-6686 mberding@twentymilecoal.com
# Cubic Yards of soil cut/fill and/or amount of surface area moved.	2550' access road - ~5515 YD3 balanced cut and fill, refer to the attached .txt access road report document 200' x 200' drill pad - ~1390 YD3 balanced cut and fill, refer to the attached .txt pad report document About 3.5 acres of 6 total acres will be disturbed.		
Site Area:	The site is approximately 6 acres of which 3 acres will be disturbed by construction activities.		
Sequence of Major Activities			
The order of activities will be as follows:		5 Construction of a 24' wide by 2,550' long access road. 6 Construction of a 200' x 200' finished drill pad. 7 Construction of a 450' long perimeter ditch with two rock check dams on the north, west and south sides of borehole pad. 8 9	
1 Please refer to the attached Scope of work for the access road and drill pad dated			
2 Establishment of temporary drainage and sediment control measures.			
3 Access Road - Removal of 2,650' of access road brush and topsoil and placement in temporary stockpile			
4 Drill Pad - Removal of 225' x 225' (1.2 acres) of borehole pad brush and topsoil material and placement in a temporary stockpile			
Name of Receiving Waters:	Fish Creek		
CONTROLS			
Erosion and Sediment Practices			
Stabilization Practices			
Temporary Stabilization -	Refer to the attached Exhibit 46DD-F1. Temporary stabilization includes wattles or equivalent devices at all soil stockpiles, at the east end of the drill pad on the north and south sides of the access road. An existing 18" CMP will be upgraded to a 100' long by 24" diameter CPM.		
Permanent Stabilization -	Refer to the attached Exhibit 46DD-F1. A run-off diversion ditch will be constructed on the north, west and south sides of the drill pad.		
Weed Control -	Refer to the attached Weed Management Plan dated October 2011.		
Structural Practices			
Refer to the attached application to the Routt County Planning Dept. for an administrative use permit.			
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Drainage and sediment from disturbed areas will be controlled by an integrated system, using grading and berms to limit and control surface runoff, mud pits excavated within the footprint of the pad to contain all drilling fluids, and either rock check-dams, silt fence, or straw bales/wattles installed at the low point of the drill-pad to contain sediment and control any discharge.			
Maintenance:	The access road and drill pad surfaces will have approximately 3" of road base or screened rock applied in the spring. The access road and pad will be maintained and/or plowed as needed by a road blade.		

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OTHER CONTROLS	
Waste Disposal	Waste will be disposed of at other Twentymile trash collection sites.
Waste Materials	Minor amounts of cardboard, wooden stakes, misc. steel pipe that will be removed as construction progresses.
Hazardous Waste	None, except fuels and oils used to operate and service construction equipment.
Sanitary Waste	A rented portable toilet will be on site during construction activities. The toilet will be inspected and cleaned weekly.
TIMING OF CONTROLS/MEASURES	
The proposed drill pad and access road construction will be initiated as soon as possible after receipt of permit approvals, with completion of the borehole and cement transfer activities occurring during the 1st quarter of 2016.	
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	
On November 11, 2015, Twentymile Coal, LLC submitted Minor Revision (MR15-291) to the Colorado State Division of Reclamation, Mining and Safety (CDRMS) requesting CDRMS approval of the Minor Revision to our existing approved Permit for the installation, operation, and reclamation of this 13 Left utility borehole, to be located over the 13-Left Outby Gateroad. CDRMS approval is expected any day. A copy of the cover letter to the CDRMS is attached.	
MAINTENANCE/INSPECTION PROCEDURES	
Erosion and Sediment Control Inspection and Maintenance Practices	
1	The installed wattles and diversion ditch erosion controls will be inspected approximately twice annually in the spring after the spring run-off and again in the fall.
2	Culverts will be cleaned as needed after the spring run-off and again in the fall.
3	The soil piles will be seeded in the spring of 2016.
4	A rock check dam constructed of 8-12" fractured rock will be maintained at the two end of the proposed diversion ditch.
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INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present onsite during construction:

- Straw or equivalent wattles
- 8-12" fractured limestone for the 2 rock checks.
- Pit run, road base and 3/4" screened rock.
- Wooden stakes or equivalent for the stabilization of the wattles.
- Steel pipe for the borehole surface casing and borehole casing and misc. pipe fittings.
- Small telephone cable attached to the borehole casing, grouted in place with a flowable cement grout.

Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

- Please refer to the attached Twentymile SPCC plan.
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STORM WATER MANAGEMENT PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed:

Michael A. Bender

Date:

12/22/15