

From: Priscilla Burton
To: kara@innovative-companies.com; Kent Fawcett; OGMCOAL
CC: Campbell, Ingrid; Haddock, Daron; Owen, James
Date: 7/5/2011 9:41 AM
Subject: 0070001 Outgoing White Oak Remaining Work
Attachments: June 30 2011 Work Remaining AR 11035.docx

Hello Kent,

I've attached a comprehensive list of the items remaining to be done at White Oak. As we discussed at the site last week, we would like to begin with vegetation planting along the streambanks and then progress to channel earth work when the stream dries out.

Will you and John Lee be able to meet with us at 2 p.m. this Thursday to discuss vegetation planting?

Priscilla Burton, CPSSc
Division Oil Gas & Mining
319 Carbonville Rd., Ste. C
Price UT 84501
(435) 613-3733

AR 11035
White Oak Stabilization Project and Reclamation Construction
Remaining work as of June 30 2011

PLANTING ACTIVITY:

Plant seedlings on slopes (980 total) and channel banks (900 total) as described in Section 4.3.1, Sec. 4.5 and Appendix B.

Begin along Terrace C and Terrace C outslope, Stream Reach 4 east side, and upper reaches of the stream channel above the small subsidence hole.

Plant along remaining terraces, slopes, reclaimed roads and channel banks as grading work is finished.

WORK ON SLOPES:

Subsidence holes filled and overfilled (Section 3.2)

Change order filed for Bentonite addition to one or both holes.

Grade the erosion gully by the small subsidence hole.

Spread remaining biosolids (now stored in 3 or 4 locations). Keep 30 ft. away from side channel and main channel. Place excelsior logs along lowest edge of placement (Sec.3.1 H.2)

While working with biosolids stored on the former water tank road, please remove exposed metal waste (Section 3.1 K)

Grade excess spoil in Reach 4 location (Section 3.4 B) against hill using small berms along contour or mini terraces to send water to the Creek. Can also place excess spoil on the former access road to the water tank at north end of the site by the aspen grove where biosolids are now stored.

Spread straw bales 1 Ton/acre (Change Order dated 11/4/2010) over remaining unseeded 7 acres and roughen soil (gouge). Provide phytosanitary certificate for straw.

Hydroseed and hydromulch 7 acres of remaining slopes (Change Orders dated 11/ 4 and 11/18/2010) accessed from Terrace A and B: hydroseed Terrace A itself and Terrace B itself, the Sink hole areas, the biosolid storage and redistribution areas, the excess spoil placement area, the riparian areas and channel bottom gaining access from Terraces A and B and Roads R1, R2, R2A. (Records indicate that the slopes above and below Terrace B (9 acres) were seeded by hand with 32 lbs/ac of the final mix last year.)¹ John Lee has the remaining seed stored at his warehouse. Need seed tags and bonded fiber mulch tag.

¹ The slopes above and below Terrace B are of utmost concern to the landowner and the Division. If there is little germination of native seed, we may desire hydroseeding of these slopes as well. Perhaps this work could be done in exchange for the reduced wood straw coverage discussed below.

Distribute wood straw. John Lee has 1,344 (50 lb) straw bales stored at his warehouse. If this straw is scattered over 20 acres it will provide approximately 33% coverage. The Technical Specifications call for 50% coverage (Section 4.4). This would require purchase of an additional 1,656 bales of wood straw. However, we can reduce the additional purchase requirement to an even 2 truck loads which is 1,344 bales, since some of the 20 acres is cut slope that will not hold the wood straw.

Remove access to Terrace B and R1 and R2 and R2A, simultaneously spread straw bales and gouge. Hand seed reclaimed road areas.

CHANNEL CONSTRUCTION WORK (Sec. 3.4):

Flag areas to be repaired and locations of remaining drop structures.

Fill in side slope erosion of the stilling basin drop structure in Reach 3 with smaller rock and/or log wiers

Increase side height of the channel in Reach 3 in selected locations.

Install log wiers along the channel bank as needed.

Remove exposed filter fabric and metal encountered (Section 3.4A).

Count the number of drop structures constructed last fall and construct 2 ft and 5 ft drop structures in Reach 2, to make a total of 8 constructed drop structures in all reaches, per bid. Large boulders in channel are available.

Scatter remaining logs along stream banks in all Reaches to add a natural look and provide shade to seedlings (Sec 3.4H).

Hydroseed and hydromulch the riparian seed along all Reaches of channel banks and in channel bottom. (Sec. 4.3.1 and Change Orders dated 11/ 4 and 11/18/2010).

Distribute wood straw (Sec. 4.4).

AS-BUILT DOCUMENTATION (Sec. 5.0).

GPS points as described in Section 5.0 Item 10.

Itemizations of excelsior log installation for erosion control/seedling support.

Itemization of log retainers and drop structures by reach.

Seed, mulch and straw information as requested above.