



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

October 18, 2011

Walter L. Baker, Director  
Division of Water Quality  
195 North 1950 West  
Salt Lake City, UT 84114-4870

Subject: Utah Nonpoint Source Grant Awards Payment Request, 2010-2011 White Oak Mine Reclamation Grant and 2012 White Oak Mine Reclamation Grant

Dear Mr. Baker:

In accordance with item #2 of the Grant, I am notifying you that all work on the White Oak Restoration Project has now been completed. Innovative Excavation was the contractor for the White Oak Mine Restoration Project, AR-11035. Due to inclement weather, the project was completed in two phases. The first phase, completed in November 2010, included grading of the slopes, creation of terraces, incorporation of straw into the soil, hauling and spreading biosolids, seeding and reconstruction of the steepest sections of the channel. The second phase, completed in August 2011, included final work on the channel, spreading remaining biosolids, seeding and hydromulching remaining areas, planting seedlings, and scattering wood straw on all the slopes. The attached report outlines details of the work.

A copy of the final project invoice is attached to document the distribution of funds. Thank you very much for supporting this work with a Nonpoint Source Grant Award in the amount of \$40,000.

Sincerely,

Dana Dean  
Associate Director

DD/PWB/ss

cc: Carl Adams, Watershed Protection  
Mark Schmitz, Watershed Protection  
Price Field Office

O:\007001.WO\letter to DWQ 10112011.docx



## White Oak Stabilization Project Completion Report

State Procurement Solicitation #AR-1135

October 14, 2011

Priscilla Burton, Project Manager

Division of Oil, Gas, Mining

### Location

The project is located in a side canyon to Eccles Canyon, approximately 4 miles south of Scofield on State Highway 264. From the State highway, there is a 1.5 mile paved access road leading up the Whiskey Creek drainage to the reclaimed mine site. The project is on privately owned land in T. 13 S., R. 7 E., NW ¼ Sec. 30 and SW ¼ Sec. 19. The area is shown on the Scofield Utah USGS 7.5 minute quadrangle and on the Nephi Q1919 USGS 30'x60' (1:100k) quadrangle.

### Historical Background

The site was formerly an underground mine, known before the 1977 Surface Mining Control and Reclamation Act as the Belina Mine, and under Utah permit C/007/0001 as the Valley Camp Mine, and the White Oak Mine. In 2001, the portals to the lower and upper Hiawatha seams were sealed and the mining method was changed to surface mining. Surface mining was abandoned in 2003, when the mine operator and their bonding agent both filed for bankruptcy.

The site was reclaimed in 2005 using funds recaptured from bankruptcy court. Severe slope and channel erosion and sink holes were noted in 2008, which prompted the Division of Oil Gas and Mining to initiate this stabilization project. An area of approximately 20 acres on the 28% east-facing slope was identified as the project area. Run-off from the slope reported to the reclaimed Whiskey Creek channel, which was also in the project area. The work was undertaken in two field seasons, first beginning on October 11, 2010 and ending November 16, 2010; beginning again on July 11, 2011 and ending August 15, 2011.

### Description of the Work

The White Oak Stabilization Project is described in the Technical Specifications of State Procurement Solicitation AR #11035. The specifications describe construction of three terraces on the east facing slope, the restoration of Reaches 3 & 4 of Whiskey Creek, and the backfilling of two sink holes. Change orders to the technical specifications changed the slope treatments as follows:

1 Ton/ac straw was applied prior to gouging.

9 acres on the east facing slope were surface roughened.

1500 lbs/acre wood fiber mulch was applied as hydromulch to 20 acres.

Biosol Forte was applied at a rate of 800 lbs/ac to 4 acres that could not be reached by the biosolids application equipment.

The east facing slope was divided into three shorter slopes by the construction of terraces. Terraces allowed water to be held longer on the slope and also conveyed excess water to an existing, constructed side channel. Three access roads were temporarily constructed for equipment access. Map WO-8 in Attachment 1 shows the location of the terraces and access roads.

Track equipment traveled all over the 900 foot long x 900 ft. wide east-facing slope to collect riprap for use in channel stabilization. In the process, large gullies that ran the length of the slope were filled in and the need for erosion control log installation was eliminated.

The specifications describe the application of 20 dry MT biosolids/acre to the east facing slopes, and incorporation into the soil along with one ton/acre straw. Biosolids were hauled from either the Spanish Fork Waste Water Treatment Facility (SFWWTF), 2160 North 175 East, Spanish Fork or from the Price River Water Improvement District (PRWID), 5382 East Washer Plant Road, Wellington. Brian Harris, PRWID, estimated the dry weight of the 550 cubic yards hauled from PRWID at 4MT/8cu yd or 0.5MT/cu yd. Based upon that measurement, the total weight of the PRWID biosolids hauled was 225 MT. Dennis Sorenson estimated the weight of the 264 cubic yards hauled from SFWWTF at 1.5 MT/cu yd, with 20% solids. Based upon this estimate a total of 79 dry MT were hauled from Spanish Fork.

A total of 304 dry MT of biosolids, weight determined as above, were spread on to the slopes with a rock-chucker in 2010 over approximately 12 acres (not on terraces or near drainages) and in 2011, the remaining biosolids were spread with a bull dozer on approximately 3 acres in the vicinity of access R1 and R2. That is a rate of 20 dry MT/ac. After biosolids application, straw was applied and the surface was roughened. Biosolids were not spread on terraces or near drainages or on areas inaccessible to the rock chucker. Biosol, an organic fertilizer, was applied with hydroseeding and hydromulching to 4 acres that were inaccessible to the rock chucker.) The upland seed mix was hand broadcast onto the snow covered slopes ten days after biosolids application, and the site was shut down for winter.

Also in the fall of 2010, the channel was widened and five of eight drop structures and pools were constructed in the steepest Reaches 3 & 4 , see map WO-9 in Attachment 1. Three more drop structures were constructed in 2011. Approximately 19 logs (greater than 10 inches in. diameter) were imbedded in the lower reaches of the channel and a dozen were scattered on the banks of the upper reaches. A riparian seed mix was seeded along both sides of the channel. Riparian species were planted in the ephemeral channel and along the banks. Dryland species were planted on the slopes. The seed mixes and plant species tables are found in Attachment 1.



This photograph , taken November 6, 2010, shows the progress made in the first field season. The three terraces are evident in the photograph. The green slopes immediately above and below the upper terrace have just been treated with Biosol, hydroseeded and hydromulched. The remainder of the slope was seeded by hand due to snow. A track hoe can be seen (far left of the photograph) reclaiming the access road R3 to the upper terrace. A rock-chucker

can be seen on the lowest terrace (just below center of the photograph) distributing the biosolids to the prepared slopes. The darkened slopes above the rock chucker indicate the location of biosolids distribution and surface roughening. At the very bottom of the photograph is a temporary access road. This temporary access road looks darker than the surrounding soil due to moisture in the disturbed soil. Biosolids were not applied to this road.

The photograph below was taken from the same vantage point, on August 11, 2011, shows the three terraces in the second field season, with vegetation. Vegetation provided the most cover where biosolids or Biosol were applied. There is visibly more vegetation within



reach of the rock chucker spray from the terraces.



November 6, 2010. An operator (standing on the berm) controls the distribution of the biosolids spray from the rock-chucker using remote control.



The photo to the left shows the surface appearance of the biosolid application.



Biosolids were incorporated into the soil with surface roughening to inoculate the soil, stimulate existing soil micro-organisms, and to ensure that the biosolids were retained on the slope.



November 6, 2010. Biosolids applied to roughened slope between middle and lower terrace.



August 9, 2011. This photo is taken from the same vantage point as above, and shows the vegetative cover between the lowest and middle terrace in the first growing season.



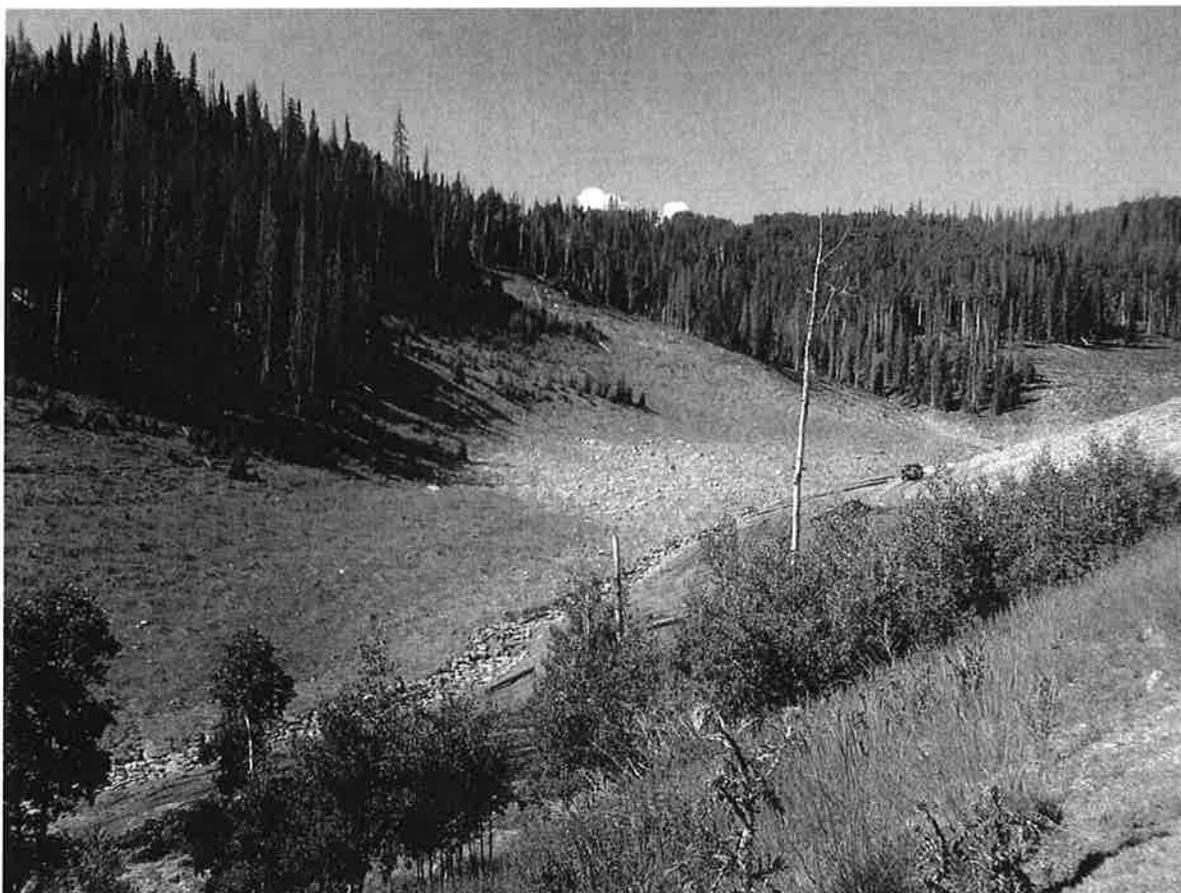
August 9, 2011. Triticale is the dominant cover species.

2009. Pre-construction. Reach 4.



08/18/2011. Post Construction. Reach 4.





8/18/2001. Seeding and hydromulching along Reaches 1 and 2, Whiskey Creek reclaimed channel. Restored Reach 3 is in the lower left of photo.

### Findings for Future Biosolids Applications:

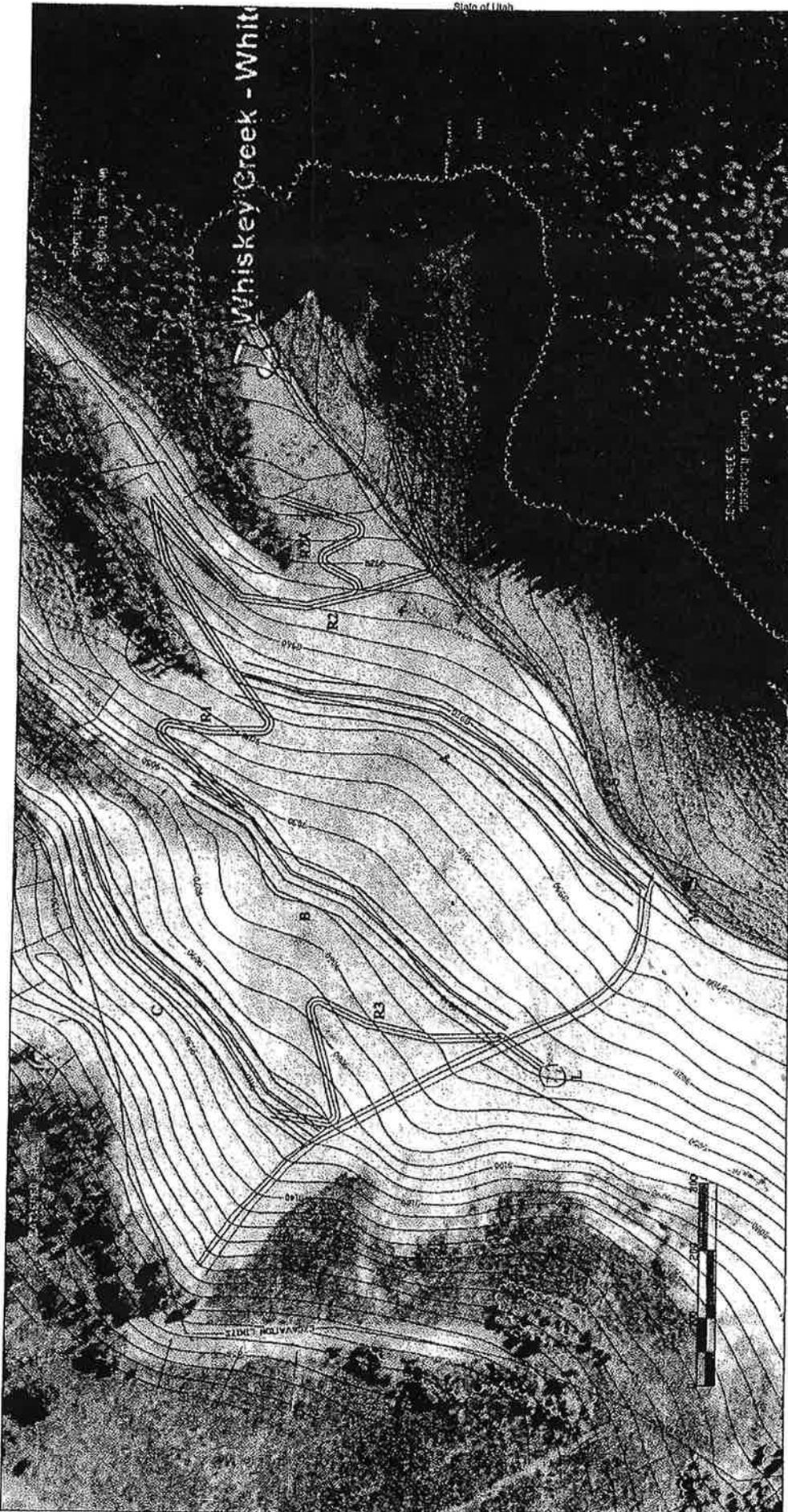
The 20 dry MT/ac application rate was determined in consultation with the Division of Water Quality, based upon the nitrogen concentration of the biosolids. Although this was a scant surface application, a positive response to this application rate was confirmed by the visible increase in seedling germination and vigor within reach of the rock chucker spray from the terraces. Baseline quantitative vegetation assessment and spoils analysis was completed by the Division of Oil, Gas and Mining prior to biosolids application. The site will be monitored again in two growing seasons to provide a quantitative comparison with the baseline data.

The rock chucker was suitable for distributing granular, dried, digested biosolids, such as that produced by PRWID. However, the addition of polyacrilamide (PAM) to the Spanish Fork biosolids made it very difficult to scatter the biosolids using this method. The PAM created a jello mass that clogged the machinery. A bull dozer was more suitable for distribution of the PAM treated biosolids. Biosol is an option for difficult to reach slopes.

Triticale was included in the seed mix as a fast growing, sterile cover crop. Triticale germinates quickly. In the first growing season, it was robust and reached 24 inches tall. Triticale provided erosion control and protection for the native species that are slower to emerge. The dried Triticale stalks will provide a layer of mulch in the second growing season. The barley straw not only provided erosion control, but also contributed to the first year cover.

Winter closure of the site delayed wood fiber mulch and wood straw applications until the second season. Native species growth should benefit from the added surface protection. Wood fiber and straw will provide additional soil erosion protection, improve soil moisture retention, and provide a food source for soil microbes.

# ATTACHMENT 1



<p><b>Legend:</b></p> <ul style="list-style-type: none"> <li> Terrace</li> <li> Access Road</li> <li> Ditch</li> <li> Sakhele</li> </ul>	<p><b>Comments:</b></p>	<p>Revision: 5</p>	<p>Date: 6-30-2010</p>	<p>Checked By:</p>	<p>Drawn By: J.Owen</p>	<p>DWG: WO-8.dwg</p>	<p>File: O:\WhiteOak Design\Maps</p>		<p>WO-8</p>	<p>Terraces &amp; Access Roads</p>
									<p>State of Utah DEPARTMENT OF NATURAL RESOURCES <b>Division of Oil, Gas &amp; Mining</b> 1924 West North Temple, Suite 2210, PO Box 142891, Salt Lake City, Utah 84116-0891 (801) 538-5340 Facsimile (801) 539-3940 TTY (801) 538-7450 www.dgn.utah.gov</p>	



<b>Legend:</b> Reach 1 Reach 2 Reach 3 Reach 4	File: O:\WhiteOak Design\Maps DWG: WhiteOak Approved Design Drawn By: J.Owen Checked By: Date: 7-14-10 Revision: 7		State of Utah DEPARTMENT OF NATURAL RESOURCES <b>Division of Oil, Gas &amp; Mining</b> 1294 West South Temple, Suite 1210, PO Box 145961, Salt Lake City, UT 84114-5961 Telephone: (801) 534-5340 Facsimile: (801) 255-9749 TTY: (801) 534-7448 www.dogm.utah.gov	Bid AR11035 Reach Designation WO-9
	<b>Comments:</b>			

**Terrace Containerized Shrub List**

Terraces, and access roads (Containerized plants)			
Common Name	Scientific Name	Spacing	# of Plants
Golden Currant	Ribes aureum	10'	245
Western Clematis	Clematis ligusticifolia	10'	245
Big Sagebrush	Artemisia tridentata vaseyana	10'	245
kinnikinnick	Arctostaphylos uva-ursi	10'	245
Total:			980

The Division has purchased these shrubs, do not include price in bid.

Riparian Seed Mix

Common Name	Scientific Name	Variety	Pounds Per Acre	% of mix
Creeping Red Fescue	Festuca rubra		2.5	
Creeping Meadow Foxtail	Alopecurus arundinaceus		1.25	
Streambank Wheatgrass	Elymus lanceolatus		6	
Mountain Brome	Bromus carinatus		12.25	
		Total:	22	
		Total pounds (1.34 acres) (15ft from streamline)		29.48

The Division has purchased these seeds do not include price in bid.

Riparian Cutting/container list

Bank Zone	Common Name	Scientific Name	Spacing	# of cuttings
	Willow(cutting)		6'	360

Overbank to Transitional zone (Containerized Plants)				
Common Name	Scientific Name	Spacing	# of plants (planted 3'-10ft from streamline)	
Red Osier Dogwood	Cornus sericea Bailey	6'	150	
Skunkbush sumac	Rhus trilobata	6'	150	
Saskatoon serviceberry	Amelanchier alifolia	6'	150	
woods rose	rosa woodsii	6'	150	
golden currant	Ribes aureum	4'	150	
Chokecherry	Prunus virginiana	6'	150	
	Total:		900	

## Terrace Seed Mix

	Common Name	Scientific Name	Variety	Pounds per acre	
Grasses	Intermediate Wheatgrass	<i>Thinopyrum trichophorum</i>	Oahe	5	
	Smooth Brome	<i>Bromus inermis</i>	Lincoln	3	
	Sterile Rye	<i>Triticale aestivum x Secale cereale</i>	QuickGuard Sterile	15	
	Dryland Orchardgrass	<i>Dactylis glomerata</i>	piute	1	
	Standard Crested Wheatgrass	<i>Agropyron desertum</i>	Ephraim	2	
	Thickspike Wheatgrass	<i>Agropyron dasystachyum</i>	Critana	2	
	Hard Fescue	<i>Festuca trachyphylla</i>	Durar	0.5	
	Forbs	Alfalfa	<i>Medicago sativa ssp. falcata</i>	falcata	1
		Yellow Sweetclover	<i>Melilotus officinalis</i>		1
		Palmer Penstemon	<i>Penstemon palmeri</i>		0.25
Western Yarrow		<i>Achillea millefolium</i>	occidentalis	0.05	
Shrubs		Prairie Sage	<i>Artemisia ludoviciana</i>		0.05
	Forage Kochia	<i>Kochia prostrata</i>		0.2	
		TOTAL:		31.05	





Project: White Oak  
 Address: Scofield Utah  
 Owner: Utah Division of Oil Gas and Mines (UDOGM)  
 Contact: Priscilla Burton

Date: 8/5/2011  
 Pay Application: 3  
 Project #: 01-10-10010  
 UDOGM PO#: 560 1200000007

Cox Code	Item	Description	Quantity	Unit	Amount	Pay App 11 - October 29, 2010		Pay App 12 - November 19, 2010		Pay App 13 - August 5, 2011		YTD Billing	Retention	Amount of Retention	% Comp	Balance to Finish	% Remaining
						Quantity	Amount	Quantity	Amount	Quantity	Amount						
	1.00	Mobilization	1	LS	\$ 20,750.00	50%	\$ 10,375.00	85%	\$ 17,637.50			\$ 38,387.50	5%	\$ 1,919.38	185%	\$ (17,637.50)	48%
	2.00	Terrace A cut/fill	866	CY	\$ 2,387.00	100%	\$ 2,387.00	100%	\$ 2,387.00			\$ 2,387.00	5%	\$ 119.35	100%	\$ -	0%
	3.00	Terrace B cut/fill	474	CY	\$ 2,051.50	100%	\$ 2,051.50	100%	\$ 2,051.50			\$ 2,051.50	5%	\$ 102.58	100%	\$ -	0%
	4.00	Terrace C cut/fill	746	CY	\$ 1,014.75	100%	\$ 1,014.75	100%	\$ 1,014.75			\$ 1,014.75	5%	\$ 50.74	100%	\$ -	0%
	5.00	Terrace D cut/fill	369	CY	\$ 2,062.50	100%	\$ 2,062.50	100%	\$ 2,062.50			\$ 2,062.50	5%	\$ 103.13	100%	\$ -	0%
	6.00	Terrace E excess	750	CY	\$ 1,017.50	100%	\$ 1,017.50	100%	\$ 1,017.50			\$ 1,017.50	5%	\$ 50.88	100%	\$ -	0%
	7.00	Creek Material Removal	370	CY	\$ 21,355.25	50%	\$ 10,677.63	50%	\$ 18,677.63			\$ 42,710.50	5%	\$ 2,135.53	100%	\$ -	0%
	8.00	Road R1 Cut	12203	CY	\$ 3,594.25	50%	\$ 1,797.13	50%	\$ 3,594.25			\$ 3,594.25	5%	\$ 179.71	100%	\$ -	0%
	9.00	Road R2/R2B Cut Hill	633	CY	\$ 897.88	50%	\$ 448.94	50%	\$ 897.88			\$ 897.88	5%	\$ 44.89	100%	\$ -	0%
	10.00	Road R2A cut/fill	1386	CY	\$ 3,811.50	50%	\$ 1,905.75	50%	\$ 3,811.50			\$ 3,811.50	5%	\$ 190.58	100%	\$ -	0%
	11.00	Road R3 cut/fill	1241	CY	\$ 1,774.13	50%	\$ 887.07	50%	\$ 1,774.13			\$ 1,774.13	5%	\$ 88.71	100%	\$ -	0%
	12.00	Manual installation of erosion control logs	108	EA	\$ 3,412.75	50%	\$ 1,706.38	50%	\$ 3,412.75			\$ 3,412.75	5%	\$ 170.64	100%	\$ -	0%
	13.00	Haul 400 dry MT bio-solids to the site	400	MT/Mile	\$ 8,800.00	0%	\$ -	ADJUST	\$ (1,128.80)			\$ 340.00	5%	\$ 17.00	5%	\$ 2,004.00	95%
	14.00	Sprayed 20 dry MT bio-solids per acre over 26 acres	20	MT/AC	\$ 650.00	57%	\$ 373.50	43%	\$ 559.00			\$ 650.00	5%	\$ 32.50	76%	\$ 2,112.00	24%
	15.00																
	16.00																
		Subtotal			\$ 116,603.75		\$ 50,763.28		\$ 25,310.30			\$ 9,200.00	5%	\$ 460.00	100%	\$ -	0%
	17.00	Drop Structures	1	EA	\$ 3,450.00	3.00%	\$ 3,450.00	3.00%	\$ 3,450.00			\$ 3,450.00	5%	\$ 172.50	100%	\$ -	0%
	18.00	Reach 3 ft 4 log retainers	500	LF	\$ 18.00	60%	\$ 10.80	30%	\$ 2,700.00			\$ 9,000.00	5%	\$ 450.00	100%	\$ -	0%
		Subtotal			\$ 28,700.00		\$ 17,250.00		\$ 8,250.00			\$ 28,000.00	5%	\$ 1,400.00	100%	\$ -	0%
	19.00	Staw / Hay	40	TN	\$ 700.00	70%	\$ 280.00	30%	\$ 840.00			\$ 28,000.00	5%	\$ 1,400.00	100%	\$ -	0%
	20.00	Surface roughening from terrace and access roads	7	AC	\$ 5,500.00	100%	\$ 5,500.00	100%	\$ 5,500.00			\$ 5,500.00	5%	\$ 275.00	100%	\$ -	0%
	21.00	Seed and BFM hydro mulch Terraces and slopes A, B, C	10	AC	\$ 9,500.00	100%	\$ 9,500.00	100%	\$ 9,500.00			\$ 9,500.00	5%	\$ 475.00	100%	\$ -	0%
	22.00	Hand Broadcast remaining portions of slopes A, B, C	10	AC	\$ 2,250.00	100%	\$ 2,250.00	100%	\$ 2,250.00			\$ 2,250.00	5%	\$ 112.50	100%	\$ -	0%
	23.00	Seed and BFM hydro mulch riparian area	1	AC	\$ 1,140.00	100%	\$ 1,140.00	100%	\$ 1,140.00			\$ 1,140.00	5%	\$ 57.00	100%	\$ -	0%
	24.00	Wood Mulch Application	20	AC	\$ 2,425.00	36%	\$ 873.00	64%	\$ 3,104.00			\$ 48,550.00	5%	\$ 2,425.00	100%	\$ -	0%
	25.00	Scatter logs on stream banks	1	AC	\$ 4,500.00	100%	\$ 4,500.00	100%	\$ 4,500.00			\$ 4,500.00	5%	\$ 225.00	100%	\$ -	0%
	26.00	Hand Planting Terraces	980	EA	\$ 5,380.00	100%	\$ 5,380.00	100%	\$ 5,380.00			\$ 5,380.00	5%	\$ 269.00	100%	\$ -	0%
	27.00	Hand Planting Riparian areas	1360	EA	\$ 6,990.00	100%	\$ 6,990.00	100%	\$ 6,990.00			\$ 6,990.00	5%	\$ 349.50	100%	\$ -	0%
	28.00	As-built drawings and documentation	1	LS	\$ 250.00	0%	\$ -	100%	\$ 250.00			\$ 250.00	5%	\$ 12.50	100%	\$ -	0%
	29.00	Trash Removal (per each ton, quantity unknown)	1	TN	\$ 45.00	0%	\$ -	100%	\$ 45.00			\$ 45.00	5%	\$ 2.25	100%	\$ -	0%
		Subtotal			\$ 112,005.00		\$ 54,085.00		\$ 57,930.00			\$ 265,830.25	5%	\$ 13,291.51	103%	\$ (8,521.50)	-3%
		<b>CONTRACT TOTALS</b>			<b>\$ 257,308.75</b>		<b>\$ 53,963.28</b>		<b>\$ 95,480.30</b>			<b>\$ 265,830.25</b>	5%	<b>\$ 13,291.51</b>	<b>103%</b>	<b>\$ (8,521.50)</b>	<b>-3%</b>
<b>CHANGE ORDER ITEMS</b>																	
	CO#1	Item 19 - reduce qty of straw from 27'AC to 17'AC	-20	TN	\$ 700.00	0%	\$ -	30%	\$ (8,400.00)			\$ (14,000.00)	5%	\$ (700.00)	100%	\$ -	0%
	CO#1	Item 21 - eliminate scope of work	-10	AC	\$ 950.00	100%	\$ (9,500.00)	100%	\$ (9,500.00)			\$ (9,500.00)	5%	\$ (475.00)	100%	\$ -	0%
	CO#1	Item 21a - replace Item 21 with mobilized scope of work	20	AC	\$ 2,085.00	100%	\$ 8,340.00	16.00%	\$ 33,560.00			\$ 40,700.00	5%	\$ 2,035.00	100%	\$ -	0%
	CO#2	Item 21a - reduce quantity of hydro mulch	-8	AC	\$ 2,085.00	100%	\$ (18,315.00)	100%	\$ (18,315.00)			\$ (18,315.00)	5%	\$ (915.75)	100%	\$ -	0%
	CO#2	Terrace	3	AC	\$ 230.00	3.00%	\$ 69.00	100%	\$ 69.00			\$ 69.00	5%	\$ 34.50	100%	\$ -	0%
	CO#2	6650	4	AC	\$ 1,386.00	4.00%	\$ 5,544.00	100%	\$ 5,544.00			\$ 5,544.00	5%	\$ 277.20	100%	\$ -	0%
	CO#2	Intense Surface Roughening Quantity	7	AC	\$ 2,500.00	7.00%	\$ 17,500.00	100%	\$ 17,500.00			\$ 17,500.00	5%	\$ 875.00	100%	\$ -	0%
	CO#3	Item 15 - Credit for remaining balance of line item:	1	LS	\$ (2,112.00)	100%	\$ (2,112.00)	100%	\$ (2,112.00)			\$ (2,112.00)	5%	\$ (105.60)	100%	\$ -	0%
	CO#3	Subsidence - Concrete Plug and Regrading	1	LS	\$ 4,090.00	0%	\$ -	100%	\$ 4,090.00			\$ 4,090.00	5%	\$ 204.50	100%	\$ -	0%
	CO#4	White Oak Loadout Culvert Repair	1	LS	\$ 4,957.00	0%	\$ -	100%	\$ 4,957.00			\$ 4,957.00	5%	\$ 247.85	100%	\$ -	0%
		<b>CHANGE ORDER TOTALS</b>			<b>\$ 29,530.00</b>		<b>\$ (7,877.00)</b>		<b>\$ 37,407.00</b>			<b>\$ 29,530.00</b>	5%	<b>\$ 1,476.50</b>	<b>100%</b>	<b>\$ -</b>	<b>0%</b>



Project: White Oak Address: City State Zip: Scofield Utah Owner: Utah Division of Oil Gas and Mines (UDOGM) Contact: Priscilla Burton		Date: 8/5/2011 Pay Application: 3 Project #: 01-10-10010 UDOGM POR: 5601200000007							
		Pay Application #3							
		Pay App #1: October 25, 2010		Pay App #2: November 10, 2010		Pay App #3: August 5, 2011			
Crew Code	Item	Description	Quantity	Unit	Amount	Total	YTD Billing	Retention	Amount of Retention
<b>CONTRACT ITEMS</b>									
		<b>PROJECT SUMMARY</b>							
		ORIGINAL CONTRACT AMOUNT:			257,308.75				
		APPROVED CHANGE ORDER:			29,530.00				
		TOTAL REVISED CONTRACT AMOUNT:			286,838.75				
		TOTAL BILLED TO DATE:			285,830.25				
		TOTAL RETENTION WITHHELD:			13,291.51				
		<b>THIS PAY APPLICATION</b>							
		TOTAL AMOUNT DUE THIS PAY APPLICATION:			132,887.30				
		RETENTION WITHHELD (5%):			6,644.37				
		TOTAL PAYMENT DUE THIS PAY APPLICATION:			126,242.94				

# REQUEST FOR PAYMENT

From: Innovative Excavation  
 PO Box 818  
 West Jordan, UT 84084

To: Utah Dept. of Natural Resources  
 Attn: Rose Nolton  
 1594 W. North Temple Ste 1210  
 Salt Lake City, UT 84114-5801

Invoice: 340153  
 Draw: DRAW000003  
 Invoice date: 7/31/2011  
 Period ending date: 7/31/2011

Contract For:

**Request for payment:**

Original contract amount	\$257,308.75	Project:	01-10-10010
Approved changes	\$29,530.00	Contract date:	AR 11035
Revised contract amount		Architect:	
Contract completed to date		Scope:	
Add-ons to date	\$0.00		
Taxes to date	\$0.00		
Less retainage	\$14,768.01		
Total completed less retainage	\$280,592.25		
Less previous requests	\$126,242.93		
Current request for payment	\$132,887.30		
Current billing	\$0.00		
Current additional charges	\$0.00		
Current tax	\$6,644.37		
Less current retainage			
Current amount due	\$126,242.93		
Remaining contract to bill	\$6,246.50		

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Changes approved in previous months by Owner	20,483.00	
Total approved this Month	4,090.00	
<b>TOTALS</b>	<b>24,573.00</b>	
<b>NET CHANGES by Change Order</b>	<b>24,573.00</b>	

I hereby certify that the work performed and the materials supplied to date, as shown on the above represent the actual value of the accomplishment under the terms of the Contract (and all authorized changes thereof) between the undersigned and the Utah Dept. of Natural Resources relating to the above referenced project. I also certify that the contractor has paid all amounts previously billed and paid by the owner.

CONTRACTOR: Innovative Excavation

By: [Signature]  
 Date: 8/1/11

State Of UT County Of Se  
 Subscribed and sworn to before me this 8 day of Aug 2011  
 Notary Public [Signature]  
 My commission expires:



# REQUEST FOR PAYMENT DETAIL

Project: 01-10-10010 / White Oak Mine Reclamation Invoice: 340153 Draw: DRAW00003 Period Ending Date: 7/31/2011 Detail Page 2 of 2 Pages

Item ID	Description	Total Contract Amount	Previously Completed Work	Work Completed This Period	Presently Stored Materials	Completed And Stored To Date	% Comp	Balance To Finish	Retainage Balance
00-01001	Mine Site Stabilization, Reveg	257,308.75	170,349.96	95,480.30		265,830.26	103.31	-8,521.51	13,291.51
00-01002	CO#01 Rep.item#21,reduce si	17,200.00	-11,160.00	28,360.00		17,200.00	100.00		860.00
00-01003	CO#02 Reduce hydro mulch,ir	3,283.00	3,283.00			3,283.00	100.00		164.15
00-01004	CO#3 Concrete road for truck	4,090.00		4,090.00		4,090.00	100.00		204.50
00-01005	CO#4 42" CMP and Backfill	4,957.00		4,957.00		4,957.00	100.00		247.85
<b>Totals</b>		286,838.75	162,472.96	132,887.30		295,360.26	102.97	-8,521.51	14,768.01