

**COLORADO** Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

September 11, 2014

Mr. Sean Mello Western Slope Aggregates, Inc. P O Box 1319 Carbondale, CO 81623

Re: Blue Pit, Permit No. M-1981-207, Amendment Approval, Revision No. AM-1

Dear Mr. Mello:

On September 11, 2014 the Division of Reclamation, Mining and Safety approved the Amendment application submitted to the Division on June 20, 2014, addressing the following:

### AM01- Addition of 60 acres to permit

The terms of the Amendment No. 1 approved by the Division are hereby incorporated into Permit No. M-1981-207. All other conditions and requirements of Permit No. M-1981-207 remain in full force and effect.

The estimated liability amount of \$889,606.00 exceeds the \$354,757.00 performance bond currently held. If you have not already done so, please submit additional bond in the amount of \$534,849.00. The revision will not be final until the bond is approved by the Division.

If you have any questions, please contact me.

Sincerely,

Stephanie J. Mitchell Environmental Protection Specialist

CC: Barbara Coria, DRMS Russ Means, DRMS

Enclosure: Bond Calculation AM01



# COST SUMMARY WORK

e: Blue Pit			Permit Action:	AM01 60 acres	Permit/Job#:	M1981207
<b>PROJECT</b>	<b>IDENTIFICA</b>	<u>FION</u>				
Task #: Date:	01 9/2/2014	State: County:	Colorado Garfield		Abbreviation: Filename:	None M207-01
User:	SJM				-	

# TASK LIST (DIRECT COSTS)

\* \*

Description	Form	Fleet	Task Hours	Cost
Replace Topsoil	DOZER	1		\$33,224.00
Place Overburden	DOZER	2	742.79	\$330,887.00
rip pit floor and compacted areas	RIPPER	1	34.25	\$7,630.00
Revegetation	REVEGE	1	0.00	\$103,576.00
install grouted channels	POSTMINING	1	250.05	\$59,532.00
	<b>SUBTO</b>	TALS:	1176.25	\$534,849
	Place Overburden rip pit floor and compacted areas Revegetation	DescriptionUsedReplace TopsoilDOZERPlace OverburdenDOZERrip pit floor and compacted areasRIPPERRevegetationREVEGEinstall grouted channelsPOSTMINING	DescriptionUsedSizeReplace TopsoilDOZER1Place OverburdenDOZER2rip pit floor and compacted areasRIPPER1RevegetationREVEGE1	DescriptionUsedSizeHoursReplace TopsoilDOZER1149.16Place OverburdenDOZER2742.79rip pit floor and compacted areasRIPPER134.25RevegetationREVEGE10.00install grouted channelsPOSTMINING1250.05

# Post-Mining Drainage Channel Construction (Ditches)

Task description: Inst Blue Pit		Install grouted		n: AM01 60	Acres	Permit/Job#:	M1981207
Diucilit		<b>Г</b>	emm Action	I. <u>AIVIOT OU</u>	Acres	Permi/Job#:	WI1981207
PROJECT	IDENTIFIC	ATION					
Task #:	06	State	: Colorad	lo		Abbreviation:	None
Date:	9/2/2014	County	: Garfield	ł		Filename:	M207-06
User:	SJM						
Age	ency or organiz	ation name:	DRMS				
Channel	L	D	W (bot)	Slopes	W (top)	V/LF	V tot
	(ft)	(ft)	(ft)	(X:1)	(ft)	(CY)	(CY)
BCPD-M:	3,417	2.00	10.00	0.00	10.00	0.7407	2,531
BCPD-S:	0	0.00	0.00	0.00	0.00	0.0000	0
Totals:	3,417						2,531
Riprap	Slope L	Surface Area	Ripr	rap V			
	(ft)	(ft)		ft)			
BCPD-M:	2.00	47,838		86			
BCPD-S:	0.00	0		0			
Totals:	l L	47,838	8	86			
Materials Ne	eded:						
Ge	otextile (SY):	5,315					
	Riprap (CY):	886					
Exc	avation (CY):	2,531					
Material Cos	sts:						
	Geotexti	le (SY)					
Means Refe	erence 02340 30		25				
		p (CY): \$43.	10				
Means Refe	erence 02370 4	50 0100	10				
M. D.C	Excavatio		71				
	erence 02315 6	10 0062					
<u>Totals:</u>							
Ge	otextile (SY):	\$11,959.50					
	Riprap (CY):	\$38,181.81					
Exc	avation (CY):	\$9,390.42					
<u>Hours:</u>							
Ge	otextile (SY):	60.75					
	87.5 SY/HR	00.75					
	Riprap (CY): 7.75 CY/HR	114.31					
Excavatio	n (CY): 33.75						
2	CY/HR	75.00					
Total Po	ost-Mining Cha	nnel Reconstruc	tion hours.	25	0.05	Hours	
		annel Reconstru			9,532		

#### Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$404.00
	Total Seed Application Cost/Acre	\$404.00

# **MULCHING and MISCELLANEOUS**

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Aspen	30	Container, 2 gallon (MEANS)	\$27.05	\$0.00	\$811.50
Spruce, Blue	35	Container, 2 gallon (MEANS)	\$27.05	\$0.00	\$946.75
		Total	s Nursery Stoc	ek Cost / Acre	\$1,758.25

#### JOB TIME AND COST

g Work Items:	FERTILIZING,SEE ULCHING		
\$86,312.92			
\$103,576			
	l Failure Rate: g Work Items: \$86,312.92 \$17,262.58	g Work Items: FERTILIZING,SEE ULCHING \$86,312.92 \$17,262.58 \$103,576	I Failure Rate: 20% Cost /Acre*: g Work Items: FERTILIZING,SEEDING,NURSERY,M ULCHING \$86,312.92 \$17,262.58 \$103,576

# **REVEGETATION WORK**

Blue Pit	Dormit /	Action: AM	160 acres		Dormit/IoL#	: M1981207
blue Fit			JI OU acres		Permit/JOO#	
ROJECT IDENTIFIC	CATION					
Task #: 05		olorado			Abbreviation:	Maria
Date: $9/2/2014$		arfield			Filename:	None M207-05
User: SJM	County				r nename.	IVI207-03
Agency or organi	zation name: DRMS					
rigeney er ergann		10.010				
ERTILIZING						
laterials						
Description		Units /	Unit	Cos	t / Unit	Cost /Acre
Description		Acre	Unit	Cus	t/ Out	COSt/Acre
				\$		\$
				Tot	al Fertilizer Materials	
					Cost/Acre	\$0.00
Application						
application						2
Description						Cost /Acre
						\$
						Ψ
		Tota	l Fertilizer A	nnlicatio	on Cost/Acre	\$0.00
						20.00
<u> TILLING</u>						
Description						Cost /Acre
Description						COST/ACTC
						\$
			T	otal Tillir	ig Cost/Acre	\$0.00
SEEDING						
				n .		
Seed Mix				Rate –	Seeds	Cost /Acre
SCCU IVIIX				PLS	per SQ.	COSt /AUL
				LBS / Acre	FT	
Indian Ricegrass - Nativ	e			2.50	8.09	\$16.85
Mountain Brome - Bron				3.75	6.03	\$10.85
Slender Wheatgrass - Na				5.00	18.25	\$12.75
Thickspike Wheatgrass				5.00	17.68	\$25.85
Rabbitbrush, Rubber	<b>Oritalia</b>			2.00	29.80	\$73.20
Western Wheatgrass - N	ative			5.00	12.63	\$75.20
Needlegrass, Green - Lo				3.75	12.03	\$13.20
Saltbush, Four Wing				2.00	2.75	\$20.21
						1

**Totals Seed Mix** 

**\$196.7**7

110.81

29.00

# BULLDOZER WORK

	ption:	_	Replace	Topsoil						
: Blue Pit			Permit Action: A			AM01 60 a	cres	Permit/Job#:	M1981207	
PROJEC	T IDEN	<u>TIFIC</u>	ATION	[						
Task #:	02			State:	Colorado			Abbreviation:	None	
Date:	9/2/20	14		County:	Garfield			Filename:	M207-02	
User:	SJM			2						
۸	gency or	organiz	ation na	na <sup>,</sup> Di	RMS					
		_			4415					
HOURLY	<u> EQUI</u>	<u>PMEN</u>	T COS	Γ						
Basic M			8T - 8U							
	epower:	310								
	е Туре:	Unive	rsal							
Attac	hment:	3-shar	nk ripper							
Shift	t Basis:	1 per	day							
Data S	Source:	(CRG	)							
Cost Break	down:					1				
- · · ·	~ ~ ~ ~					Utili	zation %			
Ownershi				\$69.05			NA			
	g Cost/H			\$108.22	2		100			
Ripper or		_		\$7.46			100			
Operator	r Cost/H	our:		\$38.01			NA			
Total unit C	<sup>o</sup> ost/Hou									
		r''	\$222 73							
			\$222.73 \$222.73		2015					
Total Fleet			\$222.73 \$ <b>222.73</b>							
	Cost/Hou	ur:	\$222.73							
Total Fleet	Cost/Hou [AL QU	ur:	\$222.73 <u>FIES</u>							
Total Fleet MATERI Initial Vo	Cost/Hou [ <b>AL QU</b> ] plume:	ur:	\$222.73 <u>FIES</u>							
Total Fleet <u>MATERI</u> Initial Vo Swell t	Cost/Hou [AL QU olume:	ur:	\$222.73 <u>[]]ES</u>							
Total Fleet <u>MATERI</u> Initial Vo Swell t Loose vo	Cost/Hou LAL QU. blume: factor: blume:	ur: <u>ANTI1</u> 96,800 1.000 <b>96,800</b>	\$222.73 FIES LCY							
Total Fleet <u>MATERI</u> Initial Vo Swell to Loose vo Source of e	Cost/Hou LAL QU. blume: factor: blume: estimated	ur:	\$222.73 FIES LCY			tion, Mining	& Safety			
Total Fleet <u>MATERI</u> Initial Vo Swell t Loose vo	Cost/Hou LAL QU. blume: factor: blume: estimated	ur:	\$222.73 FIES LCY	Division Cat Hand		tion, Mining	& Safety			
Total Fleet <u>MATERI</u> Initial Vc Swell f Loose vc Source of e Source of e	Cost/Hou LAL QU. blume: factor: blume: estimated estimated	ur: 96,800 1.000 96,800 96,800 volume swell fa	\$222.73 <u>FIES</u> LCY actor:			tion, Mining	& Safety			
Total Fleet <u>MATERI</u> Initial Vo Swell to Loose vo Source of e	Cost/Hou LAL QU. blume: factor: blume: estimated estimated	ur: 96,800 1.000 96,800 96,800 volume swell fa	\$222.73 <u>FIES</u> LCY actor:			tion, Mining	& Safety			
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Total Fleet <u>MATERI</u> Initial Vo Swell f Loose vo Source of e Source of e Source of e	Cost/Hou LAL QU. blume: blume: blume: estimated Estimated Y PROD ush distan	ur: 96,800 1.000 96,800 volume swell fa	\$222.73 <u>CIES</u> <u>LCY</u>  actor: <u>ON</u>	Cat Hand	dbook	tion, Mining	& Safety			
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Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c	Cost/Hou LAL QU. plume: factor: plume: estimated estimated W PROD ush distand hourly p consistence	ur: 96,800 1.000 96,800 volume swell fa DUCTI nce: producti cy descr	\$222.73 <b>FIES</b> LCY   actor: <b>ON</b> iption:	Cat Hand 00 feet 31.6 LCY	dbook 7/hr					
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Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e Source of e MOURLY Average pu Unadjusted Materials c Average pu Average sin	Cost/Hou LAL QU. plume: factor: plume: estimated estimated <b>Y PROD</b> ush distand hourly p consistence ush gradie te altitude reight:	ur: 96,800 1.000 96,800 volume swell fa DUCTII nce: producti cy descr ent: e:	\$222.73 <b>FIES</b> LCY actor: <b>ON</b> iption: 10 % 7,000 fe	Cat Hand 00 feet 31.6 LCY Partly et s/LCY	dbook 7/hr					
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Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e MOURLY Average pu Unadjusted Materials c Average pu Average sin Material w	Cost/Hou LAL QU. plume: factor: plume: estimated estimated with distand d hourly p consistence ush gradie te altitude reight: scription: tion Corres	ur: 96,800 1.000 96,800 volume swell fa DUCTII nce: oroducti cy descr ent: e:	\$222.73 <b>FIES</b> LCY actor: ON iption: 10 % 7,000 fe 1,600 lb Top Soi actor	Cat Hand 00 feet 31.6 LCY Partly et s/LCY	dbook //hr consolidated		1 Source			
Total Fleet MATERI Initial Vo Swell f Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sin Material w Weight des Job Condit	Cost/Hou LAL QU. plume: factor: plume: estimated estimated with distand d hourly p consistence ush gradie te altitude reight: scription: tion Corres	ur: 96,800 1.000 96,800 volume swell fa DUCTI ice: 0 production cy descr ent: 0 e: 0	\$222.73 <u>FIES</u> <u>LCY</u>  actor: <u>ON</u> iption: 10 % 7,000 fe 1,600 lb Top Soi <u>actor</u> cill:	Cat Hand 00 feet 31.6 LCY Partly et s/LCY	dbook 7/hr		1			

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6966

Adjusted unit production:	648.95 LCY/hr
Adjusted fleet production:	648.95 LCY/hr

# JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.343/LCY	

Total job time:	149.16 Hours		
Total job cost:	\$33,224		

# Page 1 of 2

# BULLDOZER WORK

Task description:		Place Over	Duruch	1			
Blue Pit			Perm	it Action:	AM01 60 acres	Permit/Job	#: M1981207
PROJECT IDE	<u>NTIFI</u>	<u>CATION</u>					
Task #: 03		ę	State:	Colorado		Abbreviation	None
Date: 9/2/2	2014	Co	unty:	Garfield		Filename	
User: SJM			-				
Agency	or organ	ization name:	DRI	MS			
HOURLY EQU	-						
Basic Machine:		D8T - 8U					
Horsepower:							
Blade Type:		versal					
Attachment:	and an	ank ripper					
Shift Basis:		er day					
Data Source:							
Cost Breakdown:					T 14111	07	
Ownership Cost/	Lour	٩	\$69.05		<u>Utilization</u> NA	<u>%</u>	
Operating Cost/			108.22		100		
Ripper op. Cost/			\$7.46		100		
Operator Cost/			\$38.01				
Operator Cost	Hour.	L	\$36.01		NA		
Total unit Cost/Ho	our:	\$222.73					
Total Fleet Cost/H	our:	\$445.46					
MATERIAL Q		TTIES					
MATERIAL	UANI	<u>IIIES</u>					
Initial Volume:	_ 581,9	962		_			
Swell factor:	1.000			<u>.</u>			
Loose volume:	581,9	962 LCY					
Onumer of and a state							
Source of estimate	ed volun	ne: Di	vision o	of Reclamat	ion Mining & Safe	tv	
Source of estimate Source of estimate					ion, Mining & Safe	ty	
Source of estimate			vision o it Handb		ion, Mining & Safe	ty	
Source of estimate	ed swell	factor: Ca			ion, Mining & Safe	ty	
Source of estimate	ed swell	factor: Ca	it Handt		ion, Mining & Safe	ty	
Source of estimate HOURLY PRO Average push dist	ed swell DUCT ance:	factor: <u>Ca</u> <u> CION</u> <u> 100 f</u>	it Handt	book	ion, Mining & Safe	ty	
Source of estimate	ed swell DUCT ance:	factor: <u>Ca</u> <u> CION</u> <u> 100 f</u>	it Handt	book	ion, Mining & Safe	ty	
Source of estimate HOURLY PRO Average push dist	ed swell DUCT ance: / produc	factor: <u>Ca</u> <b><u>CION</u> ction: <u>931.0</u></b>	t Handb feet 6 LCY/I	book	ion, Mining & Safe	ty	_
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste	ed swell DUCT ance: / produc	factor: <u>Ca</u> <u> CION</u> ction: <u>931.0</u> cription: <u> </u>	t Handb feet 6 LCY/I	book		ty	
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Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste	ed swell <b>DUCT</b> ance: product oncy des dient:	factor: <u>Ca</u> <u> CION</u> ction: <u>931.0</u> cription: <u> </u>	t Handb feet 6 LCY/I	book			
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grav	ed swell <b>DUCT</b> ance: product oncy des dient:	factor: <u>Ca</u> <u>CION</u> ction: <u>100 f</u> ction: <u>931.4</u> cription: <u>10 %</u>	t Handb feet 6 LCY/l Partly c	book			
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu	ed swell DUCT ance: / produc mcy des dient: ide:	factor: Ca	t Handb feet 6 LCY/l Partly c CY	book hr onsolidated			
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight:	ed swell <b>DUCT</b> ance: / produc mcy des dient: ide: n:	factor: Ca <b>FION</b> ction: 931.0 cription: 10 % 7,000 feet 2,650 lbs/L Decompose	t Handb feet 6 LCY/l Partly c CY	book hr onsolidated	stockpile 1.1		
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grav Average site altitu Material weight: Weight descriptio Job Condition Co	ed swell <b>DUCT</b> ance: / produc mcy des dient: ide: n:	factor: Ca	t Handb feet 6 LCY/l 6 LCY/l Partly c CY CY	book hr onsolidated	stockpile 1.1	<u>rce</u>	
Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grav Average site altitu Material weight: Weight descriptio Job Condition Co	ed swell DUCT ance: product mcy des dient: ide: n: rrection perator S	factor: Ca	t Handb feet 6 LCY/l Partly c CY ed rock	hr onsolidated	stockpile 1.1	<u>rce</u> G.)	

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4205

Adjusted unit production:	391.74 LCY/hr	
Adjusted fleet production:	783.48 LCY/hr	

# JOB TIME AND COST

Fleet size:	2 Dozer(s)	
Unit cost:	\$0.569/LCY	

Total job time:	742.79 Hours		
Total job cost:	\$330,887		

# BULLDOZER RIPPING WORK

	Task description	Rip pit	floor and compacted a	reas					
Site:	Blue Pit		Permit Action:	AM01 60 acres	Permit/Job#	M1981207			
]	PROJECT ID	ENTIFICATION	<u>N</u>						
	Task #:04		State: Colorado		Abbreviation:	None			
	Date: 9/2 User: SJ	2/2014	County: Garfield		Filename:	M207-04			
			me: DRMS						
	Agency or organization name: DRMS HOURLY EQUIPMENT COST								
		Machine: Cat D		210					
		tachment: 3-Sha	Horsepower:	310 per day					
	• •		**			CRG)			
	Cost Breakdown	<u>.:</u>			• ••••				
		Ownership Cost	/Hour: \$69.0		Jtilization % NA				
		Operating Cost			100				
	Rip	per Operating Cost	/Hour: \$7.4		100				
		Operator Cost			NA				
		Total Unit Cost	/Hour: \$222.	.73					
		Total Fleet Cost	/Hour: <b>\$222</b> .	.73					
	MATERIAL QUANTITIES Selected estimating method: Area								
	Alternate Metho	ds:							
Seismic:	NA			NA	BCY	NA			
Area:	20.00	acres	Rip Depth (ft):	1.00	Volume: 32,267	BCY or CCY			
		Source of estimated quantity: Am01 application information							
	HOURLY PRODUCTION								
	Seismic:								
		Se	ismic Velocity:	NA	feet/second				
	Area:			0.54					
		0	Ripping Depth:	2.56	mph				
			Ripping Width: Ripping Length:	7.08	degrees feet				
			e Dozer Speed:	88.00	feet				
			Aneuver Time:	0.25	feet				
			on per unit area:	0.703	acres/hour				
	Job Condition Correction Factors								
	U	nadjusted Hourly U	Jnit Production:	0.703	Acres/hr				
			Site Altitude:	7,000	feet				
			Altitude Adj:	1.00	(CAT HB)				
			Job Efficiency:	0.83	(1 shift/day)				
			Net Correction:	0.83	multiplier				
		-	lourly Unit Production:	0.58	Acres/hr				
		Adjusted H	ourly Fleet Production:	0.58	Acres/hr				
	JOB TIME A	ND COST							
	Fleet size:	1	Grader(s)	Total job time	: 34.26	Hours			
	Unit cost:	\$381.488	Per acre	Total job cost	\$7,630				