February 3, 2017

Peter Freedman AuPt Industries, LLC P.O. Box 1424 Edwards, CO 81632



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

1313 Sherman Street, Room 215 Denver, CO 80203

RE: West Side Placer, File No.M-2016-081, Hard Rock/Metal Mining Limited Impact Operation (110(1)) Reclamation Permit Application Decision Letter – Financial and Performance Warranty Request

Dear Mr. Freedman:

On February 3, 2017, the Division of Reclamation, Mining and Safety (Division) approved the above noted permit application.

The amount of financial warranty set by the Division for this operation is an amount of <u>\$30,186.49</u> (enclosed). A financial warranty of the entire amount, as well as a performance warranty, must be submitted to the Division before a Reclamation Permit may be issued. Please select a type of financial warranty from those detailed in Rule 4.3. Once a financial warranty type is selected, please download the applicable financial warranty and performance warranty forms from the Division's website <u>http://mining.state.co.us/Mineral%20Forms.htm</u>. You may also contact the Division to have copies of your selected warranty forms mailed to you.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial and performance warranties. Any questions regarding completion, execution and/or submittal of financial and/or performance warranty forms should also be directed to Barbara Coria.

PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION <u>AFTER</u> RECEIPT OF THE FINANCIAL AND PERFORMANCE WARRANTIES. A PERMIT WILL NOT BE ISSUED UNTIL THE ADEQUACY OF BOTH THE FINANCIAL WARRANTY AND PERFORMANCE WARRANTY ARE VERIFIED BY THE DIVISION.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

my Geldell

Amy Yeldell Environmental Protection Specialist



Peter Freedman February 3, 2017 Page 2

Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511 Fax: (970) 241-1516

Cc: Russ Means, Senior EPS, Grand Junction DRMS Philip Courtney, Colorado State Land Board

COST SUMMARY WORK

]	Task descrip	otion:	New Permit					
Site:	West Side	e Placer	Pe	rmit Action:	Арр	Permit/Jol	o#: <u>M2016081</u>	
<u>P</u>]	ROJECT	IDENTIFIC	CATION					
	Task #:	ACY	State:	Colorado		Abbreviation:	None	
	Date:	1/17/2017	County:	Moffat		Filename:	M081-ACY	
	User:	ACY						
	Age	ency or organi	zation name:	RMS				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
1 ask	Description	Used	Size	Hours	Cost
01a	Plug water well	BOREHOLE	1	4.00	\$3,738.98
02a	Regrading Pond	DOZER	1	1.52	\$243.00
02b	Overburden replacement and grading	SCRAPER1	1	19.43	\$11,115.00
03a	Topsoil replacement	DOZER] 1	5.08	\$813.00
04a	Seed mining phases	REVEGE] 1	8.00	\$1,482.00
04b	Seed roads, pond and operating areas	REVEGE] 1	8.00	\$1,096.00
05a	Initial Mobilization	MOBILIZE	1	5.78	\$4,348.00
05b	Secondary Mobilization	MOBILIZE	1	5.78	\$1,196.00
		<u>SUBTO</u>	<u>TALS:</u>	57.59	\$24,032

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$485.45
Performance bond:	1.05	Total =	\$252.34
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$2,403.20
		TOTAL O & P =	\$3,140.99
		CONTRACT AMOUNT (direct + O & P) = $($	\$27,172.99

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.00 4.25 5.00	Total = Total =	500.00 \$1,154.85 \$1,358.65
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$6,154.49
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$30,186.49

BOREHOLE SEALING WORK

,	Task description:	Plug water we	ll			
Site:	West Side Placer	Pe	ermit Action:	App	Permit/J	ob#: <u>M2016081</u>
<u>PROJE</u>	CT IDENTIFICATION	N				
Task #: Date: User:	1/17/2017		Colorado Moffat		Abbreviation: Filename:	None M081-01a
	Agency or organization	ion name: DI	RMS			

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug lower portion of well	Bentonite seal - 8 in. (labor, equip, materials)	7.875	295	295.00	LF	\$12.38	\$3,652.10
Plug upper portion of well	Portland cement grout - 10 in. (labor, equip, materials)	8.625	5	5.00	LF	\$16.68	\$83.42
Marker	Borehole location/identification marker (EA, material cost only)	8.625	1	1.00	EA	\$3.47	\$3.47

Job Hours: 4.00

Total Cost: \$3,739.00

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BULLDOZER WORK

Task description:	Regrading P	onu			
West Side Placer		Permit Action:	Арр	Permit/Job#:	M2016081
PROJECT IDENTI	FICATION				
Task #: 02A	Sta	te: Colorado		Abbreviation:	None
Date: 1/17/2017 User: ACY				Filename:	M081-02a
Agency or orga	anization name: _	DRMS			
HOURLY EQUIPM	ENT COST				
	at D8T - 8U				
Horsepower: 30	niversal				
Blade Type: U: Attachment: N					
	per day				
	(RG)				
Cost Breakdown:	,				
Cost Dicardowii.			Utilization %		
Ownership Cost/Hour:		\$52.86	NA		
Operating Cost/Hour:		\$68.35	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
		\$38.89	NA		
Total Fleet Cost/Hour:	\$160.10 \$160.10				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$160.10 \$160.10 TITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume:887	\$160.10 \$160.10 TITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0	\$160.10 \$160.10 TITIES 7 60				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940	\$160.10 \$160.10 TITIES 7 60 0 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu	\$160.10 \$160.10 TITIES 7 60 0 LCY ume: 2993	sqft x 8' deep			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940	\$160.10 \$160.10 TITIES 7 60 0 LCY ume: 2993				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu	\$160.10 \$160.10 TITIES 60 0 LCY 1me: 2993 11 factor: Cat H	sqft x 8' deep			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated sweet HOURLY PRODUCT	\$160.10 \$160.10 TITIES 60 0 LCY 1me: 2993 11 factor: Cat H	sqft x 8' deep			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated swe	\$160.10 \$160.10 TITIES 60 0 LCY 1me: 2993 11 factor: Cat H CTION 50 feet	sqft x 8' deep			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated swee HOURLY PRODUC Average push distance:	\$160.10 \$160.10 TITIES 7 60 0 LCY Ime: 2993 11 factor: Cat H CTION 50 feet 1,627.0	sqft x 8' deep landbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volt Source of estimated swee HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	<u>\$160.10</u> TITIES 7 60 0 LCY 1me: <u>2993</u> 11 factor: <u>Cat H</u> TION 250 feet 1,627.0 escription: <u>Par</u> 0 %	sqft x 8' deep Iandbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude:	$ \begin{array}{r} \$160.10 \\ \$160.10 \\ \hline \\ \$160.10 \\ \hline \\ \hline \\ \$160.10 \\ \hline \\ $	sqft x 8' deep landbook LCY/hr tly consolidated			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient: Average site altitude: Material weight: Material weight:	$ \begin{array}{r} \$160.10 \\ \$160.10 \\ \hline \\ \$160.10 \\ \hline \\ \hline \\ \$160.10 \\ \hline \\ \hline \\ \$160.10 \\ \hline \\ \hline \\ \hline \\ \hline \\ 60 \\ \hline \\ 0 \\ LCY \\ \hline \\ \hline \\ 60 \\ \hline \\ \hline \\ 1,627.0 \\ \hline \\ $	sqft x 8' deep Iandbook LCY/hr tly consolidated			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	<u>\$160.10</u> TITIES 7 60 0 LCY 10 me: <u>2993</u> 11 factor: <u>Cat H</u> CTION 1. (50 feet 1. (527.0) 2. (10 m) 2. (10 m) 3. (10	sqft x 8' deep Iandbook LCY/hr tly consolidated			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$ \begin{array}{r} & \$160.10 \\ \hline \$160.10 \\ \hline \end{array} $ $ \begin{array}{r} \hline \\ \hline $	sqft x 8' deep landbook LCY/hr tly consolidated			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 887 Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Source MATERIAL QUAN Initial Volume: 940 Source of estimated volu Source of estimated volu Source Materials consistency de Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	$ \begin{array}{r} & \$160.10 \\ \hline \$160.10 \\ \hline \end{array} $ $ \begin{array}{r} \hline \\ \hline $	sqft x 8' deep Iandbook LCY/hr tly consolidated , el - Dry 0.750	stockpile 1.1		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: 1.0 Loose volume: 940 Source of estimated volu Source of estimated volu Source of estimated volu Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{c c} \$160.10 \\ \$160.10 \\ \hline \\ \hline \\ \$160.10 \\ \hline \\ \hline \\ \hline \\ \$160.10 \\ \hline \\ $	sqft x 8' deep landbook LCY/hr tly consolidated			

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	0.700	(FND-MF)
Push gradient	1.000	(CAT HB)
Altitude	1.000	(CAT HB)
Material Weight	0.793	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	a:0.3801	
Adjusted unit production:	618.42 LCY/hr	
Adjusted fleet production:	618.42 LCY/hr	
—		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.259/LCY

Total job time:	1.52 Hours
Total job cost:	\$243

SCRAPER TEAM WORK

Site: West Side Placer	P	ermit Action:	App	Peri	nit/Job#: M2010	5081
PROJECT IDEN	TIFICATION					
Task #: 02B	State	e: Colorado		Abbrev	viation: None	
Date: <u>1/17/20</u> User: <u>ACY</u>	017 County	: Moffat		Fil	ename: M081-0)2b
Agency or o	organization name:	DRMS				
HOURLY EQUIP	<u>MENT</u>		COSTS	hift basis: <u>1 per d</u>	<u>ay</u>	
			ent Description			
	-Scraj -Do		7G			
Suppo	rt Equipment -Load A	rea: Cat D8				
Road Ma	-Dump A intenance –Motor Grae		T - 8U			
	-Water Tru					
Cost Breakdown:	Scraper Work T	aam	Support Equi	amont	Maintenance	Equipmont
Cost breakdown.	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Tru
%Utilization-machine:	100	NA	10	30	NA	
Ownership cost/hour:	\$139.29	NA	\$52.86	\$52.86	NA	
Operating cost/hour:	\$187.69	NA	\$6.84	\$20.51	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	NA	
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	NA	
Operator cost/hour:	\$34.24	NA	\$38.89	\$38.89	NA	
Unit Subtotals:	\$361.22	NA	\$98.59	\$112.26	NA	
Number of Units:	1 Work:	0 \$361.22	1 Sumorti	\$210.85	0 Maint:	\$0.00
Group Subtotals:		\$301.22	Support:	\$210.83	Maint:	\$0.00
Total work team cost						
Initial volume: Loose volume:	<u>11,111</u> 11,111	CCY LCY	Swell fact	tor: <u>1.000</u>		
	rce of estimated volum		25' x 400' strips dbook			
HOURLY PROD	UCTION					
			Scraper Bo	owl (volume) Basi	i <u>s:</u>	
Material weight: Material description: Rated Payload:	3,400 lbs/LCY Sand and gravel - We 81,600 pounds	et	Struck Heaped Average		L	CY CY CY
Payload Capacity:	24.00 LCY		Adjusted C			CY

<u>0.80</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6225 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	1131	0.40

Haul Time: **0.40** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	8.00	8.00	1931	0.29
				Return Time:	0.29	minutes
			Total Scra	per team cycle time:	2.09	minutes
			Adjuste	d for job conditions:	571.87	LCY/Hour
			Selected N	Number of Scrapers:	1	Scraper(s)
	Adjusted	1 single scra	per team (unit) hourly production:	571.87	LCY/Hour
	Adjusted m	ultiple scrap	per team (fleet) hourly production:	571.87	LCY/Hour
Optima	Unadjusted unit prov al Number of Scrapers pe			LCY/Hour		
JOB T	IME AND COST					
Flee	t size: 1	Team(s)		Total job time:	19.43	Hours
Uni	t cost: \$1.000	/LCY		Total job cost:	\$11,115	

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BULLDOZER WORK

	Topsoil replacem				;
: West Side Placer	Perr	nit Action:	Арр	Permit/Job#:	M2016081
PROJECT IDENTIF	FICATION				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: 1/17/2017	County:	Moffat		Filename:	M081-03a
User: ACY					
Agency or orga	anization name: DR	MS			
HOURLY EQUIPM	ENT COST				
	at D8T - 8U				
Horsepower: <u>30</u>					
	niversal				
Attachment: NA Shift Basis: 1 p	per day				
1	RG)				
	KU)				
Cost Breakdown:			.		
		050 05	<u>Utilization %</u>		
Ownership Cost/Hour:		\$52.86	NA		
Operating Cost/Hour:		\$68.35	100		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:		\$0.00 \$0.00	<u>NA</u> 0		
		\$38.89			
Operator Cost/Hour:		\$30.09	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$160.10 \$160.10				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1.2	\$160.10 FITIES 97 15				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1.2	\$160.10 <u>FITIES</u> 97				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1.2	\$160.10 FITIES 97 15 62 LCY	 125' x 400' :	strips		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1.2 Loose volume: 2,00	\$160.10 FITIES 97 15 62 LCY Ime:11" over 1		strips		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1,2 Loose volume: 2,00 Source of estimated volu Source of estimated swell	\$160.10 <u>FITIES</u> 97 15 62 LCY Ime: <u>11" over</u> 11 factor: <u>Cat Hand</u>		strips		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,69 Swell factor: 1.2 Loose volume: 2,00 Source of estimated volu Source of estimated swell HOURLY PRODUCC 100	\$160.10 FITIES 97 15 62 LCY 10 me: <u>11" over</u> 11 factor: <u>Cat Hand</u> TION		strips		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1,27 Loose volume: 2,00 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance:	\$160.10 TITIES 97 15 62 LCY 11me: <u>11" over 1</u> 11 factor: <u>Cat Hand</u> TION 200 feet	book	strips		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,69 Swell factor: 1.2 Loose volume: 2,00 Source of estimated volu Source of estimated swell HOURLY PRODUCC 100	\$160.10 TITIES 97 15 62 LCY 11me: <u>11" over 1</u> 11 factor: <u>Cat Hand</u> TION 200 feet	book	strips		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1,27 Loose volume: 2,00 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance:	\$160.10 FITIES 97 15 62 LCY ime: 11" over 1 Il factor: Cat Handle TION action: 200 feet 515.8 LCY/	book hr	stockpile 1.1		
Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,69 Swell factor: 1,2 Loose volume: 2,00 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$160.10 ITTIES 97 15 62 LCY Ime: 11" over Il factor: Cat Handle TION action: 200 feet 515.8 LCY/ escription: Partly c 0 %	book hr			
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,69 Swell factor: 1,2 Loose volume: 2,00 Source of estimated volu Source of estimated swell Source of estimated swell Source HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Source for the second s	\$160.10 ITTIES 97 15 62 LCY ime: 11" over 1 Il factor: Cat Handle TION action: 200 feet action: 515.8 LCY/ escription: Partly c 0 % 6,225 feet 1,600 lbs/LCY Top Soil n Factor 1	book hr consolidated	stockpile 1.1		
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Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,69 Swell factor: 1,2 Loose volume: 2,00 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis	\$160.10 FITIES 9715 62 LCYIme:11" over11 factor: $Cat HandleTIONaction:200 feetaction:515.8 LCY/escription:Partly c0 %6,225 feet1,600 lbs/LCYTop Soiln FactorSkill:0.7tency:1.$	book hr consolidated 			
Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,69 Swell factor: 1,2 Loose volume: 2,00 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis Dozing mage	\$160.10 ITTIES 97 15 62 LCY Ime: 11" over Il factor: Cat Handle TION action: 200 feet action: 515.8 LCY/ escription: Partly c 0 % 6,225 feet 1,600 lbs/LCY Top Soil n Factor • Skill: 0.7 • Skill: 0.7 ethod: 1.4	book hr consolidated	stockpile 1.1 Source (AVG.)		

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradien	t: 1.000	(CAT HB)
Altitude	e: 1.000	(CAT HB)
Material Weigh	t: 1.438	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n: <u>0.7877</u>	
Adjusted unit production:	406.30 LCY/hr	
Adjusted fleet production:	406.3 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.394/LCY

Total job time:	5.08 Hours
Total job cost:	\$813

REVEGETATION WORK

Task description:		Seed mining phases					
Site: W	/est Side Placer	Permit Action:	App	Permit/Job	Permit/Job#: M2016081		
PRO.	JECT IDENTIFI	CATION					
Т	Cask #: 04A	State: Colorado		Abbreviation:	None		
	Date: 1/17/2017	County: Moffat		Filename:	M081-04a		
	User: ACY						

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.59
Total Tilling Cost/Acre	\$107.59

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.70	11.98	\$24.98
Galleta	4.38	15.99	\$110.60
Western Wheatgrass - Arriba	5.52	13.94	\$20.37
Needle and Thread	6.06	16.00	\$285.30
Globemallow, Scarlet (or copper)	0.50	5.66	\$70.38
Basin Wildrye - Trailhead	6.06	24.62	\$39.75
Totals Seed Mix	26.22	88.19	\$551.37

Application

Description Broadcast seeding [DMG]		Cost /Acre \$261.80
broadcast secting [birt6]	Total Seed Application Cost/Acre	\$261.80

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
	Totals Nursery Stock Cost / Acre				\$0.00

No. of Acres:	1.15	Cost /Acre:	\$920.76
Estimated Failure Rate:	40%	Cost /Acre*:	\$920.76
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$1,058.87
Reseeding Job Cost:	\$423.55
Total Job Cost:	\$1,482
Job Hours:	8.00

REVEGETATION WORK

Т	ask descrip	otion:	Seed roads, pond and oper	ating areas		
Site:	West Side	e Placer	Permit Action	App	Permit/Job	#: M2016081
<u>P</u>]	ROJECT	IDENTIFIC	CATION			
	Task #:	04B	State: Colorado		Abbreviation:	None
	Date:	1/17/2017	County: Moffat		Filename:	M081-04b
	User:	ACY				
	Age	ency or organi	zation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.59
Total Tilling Cost/Acre	\$107.59

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.70	11.98	\$24.98
Galleta	4.38	15.99	\$110.60
Western Wheatgrass - Arriba	5.52	13.94	\$20.37
Needle and Thread	6.06	16.00	\$285.30
Globemallow, Scarlet (or copper)	0.50	5.66	\$70.38
Basin Wildrye - Trailhead	6.06	24.62	\$39.75
Totals Seed Mix	26.22	88.19	\$551.37

Application

Description Broadcast seeding [DMG]		Cost /Acre \$261.80
broadcast secting [birt6]	Total Seed Application Cost/Acre	\$261.80

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
		Totals	Nursery Stoc	ek Cost / Acre	\$0.00

No. of Acres:	0.85	Cost /Acre:	\$920.76
Estimated Failure Rate:	40%	Cost /Acre*:	\$920.76
*Selected Replanting Work Items:	TILLING,SEEDING		
Initial Job Cost: \$782.65			

mittai Job Cost.	\$702.05
Reseeding Job Cost:	\$313.06
Total Job Cost:	\$1,096
Job Hours:	8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init	ial Mobilization					
: West Side Plac	cer	Permit	Action: App]	Permit/Job#: <u>N</u>	/12016081
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 05A	A	State: Co	olorado		Abbre	viation: None	e
	7/2017		offat				1-05a
User: AC	Y	·					
Agency	or organization	n name: DRMS					
QUIPMENT 1	RANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per d	ay
				(Cost Data Sour		
T 1	T	CENE					
Iruck	Tractor Desc	ription: GENE	RIC ON-HIGH			DR, 6X4, DIESE	L POWERED,
T					(2ND HALF,		
Iruci	k Trailer Desc	ription: G				ROP DECK EQU	JIPMENI
				IKAILEK	(25T, 50T, AN	ND 1001)	
Cost Breakdown:							
Available Rig C	anacities	0-25 Tons	26-50 Tons	51.	- Tons		
	Cost/Hour:	\$16.63	\$18.37		22.33		
	Cost/Hour:	\$44.38	\$46.13		50.07		
	Cost/Hour:	\$27.66	\$27.66		27.66		
	Cost/Hour:	\$0.00	\$25.39		25.39		
	Cost/Hour:	\$88.67	\$117.55		25.45		
		40000	+	+-			
NON ROADAB	LE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		t	SILC	fleet		
Cat 637G	57.28	\$139.29	\$125.45	1	\$264.74	\$125.45	\$250.00
Cat D8T - 8U	48.33	\$52.86	\$117.55	1	\$170.41	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00
	I	I	1	1	· · · · · · · · · · · · · · · · · · ·	l	
				Subtotals:	\$554.47	\$331.67	\$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$33.81	1	\$33.81	\$33.81
		Subtotals:	\$33.81	\$33.81

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	CRAIG 52.00 55.00	miles
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$4,284.55	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$63.93	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time: **5.78** Hours

Total job cost: ______\$4,348_____

EQUIPMENT MOBILIZATION/DEMOBILIZATION

West Side Pla	cer	Permit	Action: <u>App</u>		·	Permit/Job#:	M2016081
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 051	3	State: Co	olorado		Abbre	eviation: N	Jone
Date: 1/1 User: AC	7/2017 2Y	County: M	offat		F	ilename: N	/1081-05b
Agency	or organizatior	n name: DRMS					
EQUIPMENT 1	TRANSPOR	<u>T RIG COST</u>					
				C	Shift ba Cost Data Sour	1	er day G Data
Truck	c Tractor Desc	ription: GENE	RIC ON-HIGH		CK TRACTO (2ND HALF,		ESEL POWERED,
				400 111	$(\underline{D}, \underline{D}, D$	-000)	
Truc	k Trailer Desc	ription: G	ENERIC FOLD	ING GOO	· · · · · ·	ROP DECK E	EQUIPMENT
Truc Cost Breakdown:	k Trailer Desc	ription: G		ING GOO	SENECK, DF	ROP DECK E	EQUIPMENT
Cost Breakdown: Available Rig C	apacities	0-25 Tons	26-50 Tons	DING GOO FRAILER (51+	SENECK, DF (25T, 50T, A) Tons	ROP DECK E	EQUIPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership	apacities Cost/Hour:	0-25 Tons \$16.63	26-50 Tons \$18.37	0 ΓRAILER (51+ \$2	SENECK, DF (25T, 50T, AN Tons 2.33	ROP DECK E	EQUIPMENT
Cost Breakdown: Available Rig C Ownership Operating	apacities cost/Hour: cost/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	PING GOO <u>FRAILER</u> (51+ \$2 \$5	SENECK, DF (25T, 50T, AN Tons 2.33 0.07	ROP DECK E	EQUIPMENT
Cost Breakdown: Available Rig C Ownership Operating Operator	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	PING GOO FRAILER (51+ \$2 \$5 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 2.33 0.07 7.66	ROP DECK E	EQUIPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operaton Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.005 7.66 5.39	ROP DECK E	EQUIPMENT
Cost Breakdown: Available Rig C Ownership Operating Operaton Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, A) Tons 2.33 0.07 7.66	ROP DECK E	EQUIPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operaton Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.005 7.66 5.39	ROP DECK E ND 100T)	
Cost Breakdown: Available Rig C Ownership Operating Operaton Helper Total Unit	apacities Cost/Hour: Cost/Ho	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/	ROP DECK E	p DOT Permit
Cost Breakdown: Available Rig C Ownership Operating Operator Helper Total Unit NON ROADAB Machine	apacities Cost/Hour: Cost/Ho	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	Fleet	SENECK, DF (25T, 50T, AN 2.33 0.07 7.66 5.39 25.45 Haul Trip	ROP DECK E ND 100T)	p DOT Permit

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$33.81	1	\$33.81	\$33.81
		Subtotals:	\$33.81	\$33.81

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	CRAIG 52.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$1,131.93	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$63.93	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time: **5.78** Hours

Total job cost: **\$1,196**