

August 29, 2019

Steve Wright Arboles Sand & Stone, LLC 12577 Highway 151 Pagosa Springs, CO 81147

RE: Lob Lolly Pit, Permit No. M-2013-066, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Wright:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Monday, October 28, 2019. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$129,688.00. This is an increase of \$82,859.68 over the \$46,828.32 currently held by the Division. This estimate is based on conditions observed during the May 14, 2019 inspection.

Please make arrangements with Gabriel Benvenuti at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303-866-3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Gabriel Benvenuti. If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office, by phone at 970-243-6368 or by email at lucas.west@state.co.us.

Sincerely,

Lucas West

Environmental Protection Specialist
Division of Reclamation, Mining and Safety

Cc: Gabriel Benvenuti, DRMS Bonding Specialist

Ec: Nathan Barton, Wasteline Inc.



COST SUMMARY WORK

Task description:

Cost Summary

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

Task #:

000 8/28/2019

State: County: Colorado Archuleta Abbreviation: Filename: None

M066-000

Date: User:

LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Relax Highwalls of Pond F2	EXCAVATE	1	11.36	\$1,789
001a	Verify Depth of Ponds	SITEMAINT ENANCE	1	16.00	\$3,500
002	Relax Highwalls of Pond F3	EXCAVATE	1	9.09	\$1,432
003	Rip compacted areas of the North Parcel	RIPPER	1	21.75	\$5,355
004a	Distribute topsoil on North Area	SCRAPER1	1	19.77	\$22,624
005	Spread topsoil across affected lands	DOZER	1	33.49	\$7,963
006a	Revegetate North Area, semi-irrigated mix	REVEGE] 1	16.00	\$8,141
006ь	Revegetate North Area, Grazing Mix	REVEGE	1	16.00	\$14,816
007a	seeding of South Area, Grazing Mix	REVEGE] 1	16.00	\$17,254
007ь	Seeding of South Area, Semi irrigated mix	REVEGE] 1	16.00	\$1,768
008	Haul reclamation equipment to and from jobsite	MOBILIZE	1	10.32	\$18,893
		SUBTO	TALS:	185.78	\$103,535

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Performance bond:

Job superintendent:

1.05 92.89

10.00

Total = \$2,091

Total = \$1,087 Total = \$6,446

Total = \$10,354

TOTAL O & P = \$19,978

CONTRACT AMOUNT (direct + O & P) = \$123,513

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

\$0 0.00 5.00 Total = \$0 Total =

\$0 \$6,176

CONTINGENCY:

0.00

Total = \$0

TOTAL INDIRECT COST = \$26,153

TOTAL BOND AMOUNT (direct + indirect) = \$129,688

HYDRAULIC EXCAVATOR WORK

Task description:	Rela	x Highwalls of P	ond F2				
Site: Lob Lolly Pit		Permit .	Action:	2019 Update		Permit/Jo	b#: <u>M2013066</u>
PROJECT IDENTI	FICATIO	<u>ON</u>					
Task #: 001 Date: 8/28/20 User: LJW	19		lorado chuleta			reviation: Filename:	None M066-001
Agency or or	ganization	name: DRMS					7/1/ EE
HOURLY EQUIPM	IENT CO	<u>OST</u>					
Basic Machine Attachment 1		6D L 10'-6" Stic Cab	<u>k</u>	W	Horsepower: Veight (MT): Shift Basis: Data Source:	11	268 29.30 per day CRG)
Cost Breakdown:			7				
Ownership Co Operating Co Operator Co Total Unit Co	st/Hour: st/Hour:	\$55.49 \$64.62 \$37.27 \$157.37		Utilization % NA 100 NA	=: = -		
Total Fleet Co	-	\$157.37					
MATERIAL QUAN Initial volume: Loose volume:	4,858 6,461		CY CY	Swell facto	or: 1.330		
	estimated :		eignt= 2 at Hand	25' Lenght 583' r book	elax to 3:1		
Excavator Cycle Time	(load buck	et, swing loaded,	dump bi	icket, swing emp	<u>ty):</u>		
Load Bucket Capacity	Secon	Basic dary Job Conditio		ndition Description Basic Description Cycle Time Valu	on: AVERA		minutes
]	Bucket Size C	lass: La	arge
Rated Capac Bucket Fill Fac Adjusted Capac	tor:	1.100 O	CY (hea ther - ro CY	ped) ck/dirt mixtures	(100-120%)	1.100	
Job Condition Correction	on Factors			Site	Altitude: 6200	<u>)</u> feet	
Altitude Adj Job Efficiency Net Correction	0 0 nadjusted l	.00 (C .83 (1 .83 mu Hourly Unit Produ		684.67	_ LCY/Hour		
	•	Hourly Unit Produ Iourly Fleet Produ		568.28 568.28	_ LCY/Hour LCY/Hour		
JOB TIME AND CO	-	10m1y 1100t 110dt	.viiuii.	300.40	_ LC1/11001		
Fleet size:	1	Excavator	To	tal job time:	11.3	7	Hours
Unit cost:	50.277	_ /LCY		Total job cost:	\$1,78	39	_

SITE MAINTENANCE

Task description:

Verify Depth of Ponds

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

Task #:

001A

State:

Colorado

Abbreviation:

None

Date: 8/28/2019 User: LJW

County: Archuleta

Filename:

M066-001a

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Verify Depth of	8.00	USER PROVIDED	1.00	EA	\$1,750.00	\$1,750.00
Pond F3		ITEM				
Verify Depth of	8.00	USER PROVIDED	1.00	EA	\$1,750.00	\$1,750.00
Pond F2		ITEM			-	-

Job Hours: 16.00

Total Cost: \$3,500.00

HYDRAULIC EXCAVATOR WORK

Task description:	_Relax Highwal	ls of Pond F3	3			
te: Lob Lolly Pit	P	ermit Action:	2019 Update		Permit/Job#:	M2013066
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 002 Date: 8/28/2019 User: LJW	State: County:			-		one (066-002
Agency or orga	anization name:D	ORMS				
HOURLY EQUIPMI	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6 ROPS Cab	5" Stick	V	Horsepower: Veight (MT): Shift Basis: Data Source:	268 29.30 1 per d (CRO	0 lay
Cost Breakdown:						
Ownership Cost Operating Cost Operator Cost Total Unit Cost	/Hour: \$64 /Hour: \$37	.62	Utilization % NA 100 NA	 		
Total Fleet Cos		7.37				
	71TIES 3,400 4,522	CCY LCY	Swell facto	or: 1.330		
	of estimated volume stimated swell factor TION		O', Length 918 LI lbook	F to 3:1		
Excavator Cycle Time (le	oad bucket, swing lo	aded, dump b	ucket, swing emp	oty):		
	Secondary Job Co		ndition Description		V AVERAGE	
	Secondary 100 Co	manion with	Cycle Time Val			inutes
Load Bucket Capacity				D 1 (0) C	11 T	
Rated Capacion Bucket Fill Factor Adjusted Capacion	or: 1.100	LCY (head Other - ro		(100-120%)		
Job Condition Correction	1 Factors		Site	Altitude: 6200	O feet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HE (1 shift/da multiplier	y)			40
A A	adjusted Hourly United Hourly United Hourly United Hourly Fleet	Production:	598.86 497.05 497.05	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND CO						
Fleet size:	1 Excava	tor To	otal job time:	9.10)	Hours
Unit cost: \$0	317 /LCY		Total job cost:	\$1.43	12	

BULLDOZER RIPPING WORK

te. Tob Lolls Dis		Damie A	Lation:	2010 TT-data		Dame:4/T-1	h#. N/20124	166
te: Lob Lolly Pit			action:	2019 Update	<u> </u>	rermit/Jo	b#: <u>M2013</u> 0	100
PROJECT IDE	NTIFICAT	<u>ION</u>						
Task #:00	3	State: Col	orado		Abb	reviation:	None	
	28/2019	County: Arc	huleta			Filename:	M066-003	
User: LJ	W							
Agency	or organization	n name: DRMS						
HOURLY EQU	ЛРМЕНТ С	OST						-0.0
Basic	Machine: C	 at D8T - 8SU			Horsepower:		310	
Ripper Att		Shank Ripper		-	Shift Basis:	-	er day	_
F F					Data Source:		CRG)	_
Cost Breakdown:								_
<u>Jose Produces wii.</u>					Utilization %			
	Ownership C	Cost/Hour:		\$103.86	NA			
	Operating C			\$82.26	100			
• • •	r Ownership C			\$10.43	· NA	_		
Ripp	er Operating C			\$8.38	100	_		
	Operator C			\$41.24	NA	_		
	Total Unit C	ost/Hour:		\$246.17				
	Total Fleet C	Cost/Hour:	\$246.	.17				
a:12.70	Source of esti	Rip Dept		1.00	Volume:	20,489		BC
HOURLY PRO	DUCTION							
Seismic:		G-tt- 37-1t		37.4	C ./	•		
		Seismic Velocity:		NA	feet/se	cond		
Area:								
		ge Ripping Depth:		2.56	feet/pa			
		ge Ripping Width: e Ripping Length:		7.08	feet/pa			
	_	rage Dozer Speed:		88.00	feet/pa feet/m			
		Maneuver Time:		0.25	minute			
		tion per unit area:		0.703	acres/h	_		
Job Condition Con	rection Factors	<u> </u>						
Una	djusted Hourly	Unit Production:		0.703	Acres/	hr		
		Site Altitude:		6,200	feet			
		Altitude Adj:		1.00	(CAT	HB)		
		Job Efficiency:		0.83	(1 shift	/day)		
		Net Correction:		0.83	multip	lier		
	Adjusted	Hourly Unit Produ	ction:	0.58	Acres/hr			
	-	Hourly Fleet Produ	-	0.58	Acres/hr			
JOB TIME AN	D COST							
Fleet size:	1	Grader(s)		Total job time	:	21.75	Hours	
	-	_						•

SCRAPER TEAM WORK

Task descrip	Task description: Distrubute topsoil on North Area					
Site: Lob Loll	Lob Lolly Pit Permit A		rmit Action:	2019 Update	Permit/Jo	b#: M2013066
PROJECT	IDENTIFIC	CATION				
Task #: Date: User:	004A 8/28/2019 LJW	State: County: ization name: DF	Colorado Archuleta		Abbreviation: Filename:	None M066-004a
HOURLY		-	UVID .	COSTShift	basis: 1 per day	
		-Scraner		t Description		

Cost Breakdown:	Scraper Wor	Scraper Work Team		ipment	Maintenance Equipment		
Over present	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck	
%Utilization-machine:	100	100	NA	NA	NA	100	
Ownership cost/hour:	\$174.06	\$103.86	NA	NA	NA	\$44.05	
Operating cost/hour:	\$190.35	\$82.26	NA	NA	NA	\$71.83	
%Utilization-ripper:	NA	0	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$10.43	NA	NA	NA	\$0.00	
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00	
Operator cost/hour:	\$30.86	\$41.24	NA	NA	NA	\$0.00	
Unit Subtotals:	\$395.26	\$237.79	NA	NA	NA	\$115.88	
Number of Units:	2	1	0	0	0	1	
Group Subtotals:	Work:	\$1,028.31	Support:	\$0.00	Maint:	\$115.88	

Cat D8T - 8SU

Water Tanker, 7,000 Gal.

NA

NA

NA

Total work team cost/hour: \$1,144.19

MATERIAL QUANTITIES

Initial volume: 25,611 CCY Swell factor: 1.000
Loose volume: 25,611 LCY

Source of estimated volume: 15" deep across 12.7 AC

-Dozer:

-Dump Area:

-Water Truck:

Support Equipment -Load Area:

Road Maintenance - Motor Grader:

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:1,600 lbs/LCYStruck Volume:24.00LCYMaterial description:Top SoilHeaped Volume:34.00LCYRated Payload:81,600 poundsAverage Volume:29.00LCYPayload Capacity:51.00 LCYAdjusted Capacity:29.00LCY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: 1.00 Minutes 0.60 Minutes

Job Condition Correction:

Site Altitude: 6200 feet

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

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	3.00	3.00	2800	0.35

Haul Time: 0.35 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	3.00	3.00	2949	0.28

Return Time: 0.28 minutes

Total Scraper team cycle time: 2.23 minutes
Adjusted for job conditions: 1,295.25 LCY/Hour
Selected Number of Scrapers: 2 Scraper(s)

Adjusted single scraper team (unit) hourly production: 1,295.25 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,295.25 LCY/Hour

Unadjusted unit production/hour: 1,560.54 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 19.77 Hours

Unit cost: \$0.883 /LCY Total job cost: \$22,624

te: Lob Lolly Pit		Permit Action	: 2019 Update	Permit/Jo	b#: <u>M2013066</u>
PROJECT IDENT	TIFICATIO	<u>ON</u>			
Task #:005		State: Colorado		Abbreviation:	None
Date: 8/28/2	2019	County: Archuleta	1	Filename:	M066-005
User: LJW	organization	name: DRMS			
_ ,		2			
HOURLY EQUIP	MENT CO	<u>OST</u>			
Basic Machine:	Cat D8T -	8SU			
Horsepower:	310				
Blade Type:	Semi-Univ				
Attachment:	3-shank rip	pper			
Shift Basis: Data Source:	1 per day (CRG)		_		
	(CRO)	710-			
Cost Breakdown:			Î 77.11 . 67		
Ownership Cost/Ho	21141	¢102.06	Utilization %		
Operating Cost/Ho		\$103.86 \$82.26	NA 100		
Ripper o			100		
Cost/Ho		\$10.43	NA		
Ripper op. Cost/Ho	-	\$0.00	0		
Operator Cost/Ho	our:	\$41.24	NA		
Total unit Cost/Hou	r: \$237.	79			
Total Fleet Cost/Ho					
MATERIAL QUA	NTITIES				
Initial Volume:	25,611				
Swell factor:	1.000				
	25,611 LCY	•			
Source of estimated	1,000				
Source of estimated		15" deep across 12.7 Cat Handbook	acres		
factor:					
HOURLY PRODU	JCTION				
Average push distar		75 feet			
Unadjusted hourly	_	1,017.1 LCY/hr			
production:		1,017.1 DO 17III			
Materials consisten	cy description	n: Loose stockpile 1.	2		
Average push	0 %		7		
gradient:		<u> </u>			
Average site altitude	e: <u>6,200</u>	reet			

Job Condition Correction Factor

1,600 lbs/LCY

Top Soil

Material weight:

Weight description:

Source

0.750	(AVG.)
1.200	(CAT HB)
1.000	(GEN.)
1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.700	(FND-MF)
1.000	(CAT HB)
1.000	(CAT HB)
1.438	(CAT HB)
1.000	(PAT)
	1.200 1.000 1.000 0.830 0.700 1.000 1.438

Net correction: 0.7519

Adjusted unit production:

764.76 LCY/hr

Adjusted fleet production:

764.76 LCY/hr

JOB TIME AND COST

Fleet size:

1 Dozer(s)

Unit cost: \$0.311/LCY

Total job time:

33.49 Hours

Total job cost:

\$7,963

Task description:

Revegetate North Area, semi-irrigated mix

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: _M2013066

PROJECT IDENTIFICATION

Task #: Date:

006A 8/28/2019

State: County: Colorado Archuleta Abbreviation:

None

Filename:

M066-006a

User: LJW

Agency or organization 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)		\$101.93
	Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	10.00	43.62	\$16.50
Meadow Brome - Paddock	5.00	4.59	\$19.88
Orchardgrass - Paiute	10.00	123.97	\$40.75
Smooth Brome - Manchar	5.00	16.64	\$16.63
Intermediate Wheatgrass - Rush	7.50	16.01	\$21.00
Burnett, Small (or Little) - Delar	5.00	6.31	\$12.50
Sainfoin - Remont	7.50	3.27	\$23.70
Totals Seed Mix	50.00	214.42	\$150.95

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre		,		\$590.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$250.17

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Tot	als Nursery Stoo	ek Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 4.5

Cost /Acre: \$1,360.27

Estimated Failure Rate: 33%

Cost /Acre*: \$1,360.27

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$6,121.22

Reseeding Job Cost: \$2,020.00
Total Job Cost: \$8,141

Task description:

Revegetate North Area, Grazing Mix

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

Task #:

006B

State:

Colorado

Abbreviation:

None

Date: User: LJW

8/28/2019

County: Archuleta Filename:

M066-006b

Agency or organization 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)		\$101.93
	Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	2.00	8.72	\$3.30
Orchardgrass - Paiute	8.00	99.17	\$32.60
Crested Wheatgrass - Standard	6.00	27.55	\$24.90
Russian Wildrye - VNS	4.00	16.07	\$23.68
Smooth Brome - Manchar	10.00	33.29	\$33.25
Pubescent Wheatgrass - VNS	10.00	20.66	\$31.50
Totals Seed Mix	40.00	205.46	\$149.23

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				\$590.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$250.17

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		To	tals Nursery Stoo	ek Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 8.2

Cost /Acre: \$1,358.55

Estimated Failure Rate: 33%

Cost /Acre*: \$1,358.55

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$11,140.11

Reseeding Job Cost: \$3,676.24

Total Job Cost: \$14,816

Task description:

Seeding of South Area, Grazing Mix

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

Task #:

007A Date: 8/28/2019 State:

Colorado

Abbreviation:

None

User:

LJW

County: Archuleta Filename:

M066-007a

Agency or organization name: DRMS

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Ferti	lizer Application Cost/Acre \$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$101.93
Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	2.00	8.72	\$3.30
Orchardgrass - Paiute	8.00	99.17	\$32.60
Crested Wheatgrass - Standard	6.00	27.55	\$24.90
Russian Wildrye - VNS	4.00	16.07	\$23.68
Smooth Brome - Manchar	10.00	33.29	\$33.25
Pubescent Wheatgrass - VNS	10.00	20.66	\$31.50
Totals Seed Mix	40.00	205.46	\$149.23

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				#F00.00
I otal Willen Waterials Cost/Acre				\$590.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}	10.00	\$70.17
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$250.17

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		То	tals Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 12.7

Cost /Acre: \$1,358.55

Estimated Failure Rate: 33%

Cost /Acre*: \$1,358.55

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$17,253.59

Reseeding Job Cost: \$5,693.68

Total Job Cost: \$22,947

Task description:

Seeding of South Area, Semi irrigated mix

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

Task #: Date:

007B 8/28/2019

State: County: Colorado Archuleta Abbreviation: Filename:

None

M066-007b

User:

LJW

Agency or organization 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)		\$101.93
	Total Tilling Cost/Acre	
	Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	10.00	43.62	\$16.50
Meadow Brome - Paddock	5.00	4.59	\$19.88
Orchardgrass - Paiute	10.00	123.97	\$40.75
Smooth Brome - Manchar	5.00	16.64	\$16.63
Intermediate Wheatgrass - Rush	7.50	16.01	\$21.00
Burnett, Small (or Little) - Delar	5.00	6.31	\$12.50
Sainfoin - Remont	7.50	3.27	\$23.70
Totals Seed Mix	50.00	214.42	\$150.95

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				\$590.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$250.17

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		To	tals Nursery Stoc	ck Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 1.3

Cost /Acre: \$1,360.27

Cost /Acre*:

\$1,360.27

Estimated Failure Rate: 33% C
*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$1,768.35

Reseeding Job Cost: \$583.56
Total Job Cost: \$2,352

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Haul reclamation equipment to and from jobsite

Site: Lob Lolly Pit

Permit Action: 2019 Update

Permit/Job#: M2013066

PROJECT IDENTIFICATION

8/28/2019

Task #:

800

State:

Colorado

Abbreviation:

None

Date: User:

LJW

County:

Archuleta

Filename:

M066-008

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis:

1 per day

Cost Data Source:

CRG Data

Truck Tractor Description:

GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description:

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

NON ROADABLE EQUIPMENT:

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
	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$114.29	\$141.54	1	\$255.83	\$141.54	\$250.00
Cat 336D L 10'-6" Stick	32.23	\$55.49	\$123.81	1	\$179.30	\$123.81	\$250.00
Cat 637G w/push- pull	59.59	\$174.06	\$141.54	2	\$631.20	\$283.08	\$500.00
Water Tanker, 7,000 Gal.	29.65	\$44.05	\$123.81	1	\$167.86	\$123.81	\$250.00
Drill/Broadcast Seeder with	25.00	\$18.15	\$67.39	2	\$171.08	\$134.78	\$250.00
Tractor							
Power Mulcher (Bowie LD-90)	6.00	\$9.74	\$67.39	2	\$154.26	\$134.78	\$250.00

Subtotals:

\$1,559.53

\$12.96

\$941.80

\$1,750.00

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.	\$12.96	1	\$12.96	\$12.96

Subtotals:

\$12.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

Total Non-Roadable Mob/Demob Cost *

\$18,877.78

'* two round trips with haul rig:
Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$18,877.78

\$15.03

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.58	0.58
Return Time (Hours):	0.58	0.58
Loading Time (Hours):	2.00	NA
Unloading Time (Hours):	2.00	NA
Subtotals:	5.16	1.16

JOB TIME AND COST

Total job time:	10.32	Hours
Total job cost:	\$18,893	