# COST SUMMARY WORK

Task description:		Summary of Reclamation Tasks under Midterm Review No. 2							
Site:	Peabody	Sage Creek M	<b>fine</b> Per	rmit Action:	MT3	Permit/Job	#: <u>C2009087</u>		
<u>P</u>	ROJECT	IDENTIFIC	ATION						
	Task #:	000	State:	Colorado		Abbreviation:	None		
	Date:	2/14/2023	County:	Routt		Filename:	C087-000		
	User:	HR1							

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Haul Backfill Mat. from Coal Handling Fac. to	TRUCK1	2	243.07	\$406,138
001	Portal	IKUCKI	2	243.07	φ+00,150
002	Haul Backfill Material from Utility Pad Area to	TRUCK1	3	102.12	\$230,032
	Portal Face-				. ,
003	Haul Backfill Material from South Facilities to	TRUCK1	2	182.31	\$370,597
	Portal Face-				
004	Remove Coal Stockpile Footprint	TRUCK1	1	63.46	\$125,693
010	Regrade Cut Material Over 6.93 ROM Coal Area	DOZER	1	46.54	\$12,885
011	Regrade Cut Material Over covered Storage Pad	DOZER	1	6.94	\$1,921
	Area		1		
012	Regrade Drill Pads COV11, CCU31, CCU47,	DOZER	1	7.78	\$2,210
	CCU58, CCU67, CCU84,				
013	Regrade Drill Pads CCU087 and Septic Drainfield	DOZER	1	1.94	\$552
020	Remove Gravel from North Facilities Parking Area	TRUCK1	1	4.99	\$8,100
021	Remove Gravel from Main North Facilities Area	TRUCK1	1	11.51	\$18,692
022	Remove Gravel from North Facilities Electrical	TRUCK1	1	3.07	\$4,984
	Shop Area				
023	Remove Gravel from North Office Parking Area	TRUCK1	1	0.58	\$935
024	Remove Gravel from South Powder Magazine Pad	TRUCK1	1	0.49	\$803
030	Rip North Facilities Parking Area	RIPPER	1	3.24	\$1,283
031	Rip North Facilities Area	RIPPER	1	7.48	\$2,962
032	Rip North Electrical Shop Facilities Area	RIPPER	1	1.99	\$790
033	Rip North Office Parking Area	RIPPER	1	0.37	\$148
034	Rip South Powder Magazine Pad	RIPPER	1	0.32	\$130
035	Rip South Covered Storage Area	RIPPER	1	3.74	\$1,481
040	Rip Haulroad A/A1 Reduction	RIPPER	1	8.85	\$3,505
041	Rip Haulroad B Reduction	RIPPER	1	5.98	\$2,370
042	Rip Haulroad D	RIPPER	1	2.61	\$1,037
045	Regrade Haulroad A/A1 Reduction	DOZER	2	32.94	\$26,070
046	Regrade Haulroad B Reduction	DOZER	2	22.27	\$17,624
047	Regrade Haulroad D	DOZER	2	9.93	\$7,856
050	Regrade Upper Sump	DOZER	1	10.36	\$3,984
051	Regrade Lower Sump	DOZER	1	7.40	\$2,846
052	Regrade Area Ditches	GRADER	1	1.03	\$237
053	Backfill and Regrade Microwave Tower Pad	DOZER	1	0.16	\$31
	(MR22)				
054	Replace Topsoil on Microwave Tower Pad	DOZER	1	0.08	\$15
060	Replace Topsoil on Coal Handling Facilities Area	SCRAPER1	1	30.32	\$53,489
061	Replace Topsoil on Portal Face-Up Area	SCRAPER1	1	46.56	\$82,148

		<u>SUBTO</u>	TALS:	2058.29	\$2,940,899
128	Clean Sediment from Upper and Lower Sumps	TRUCK1	1	60.46	\$39,738
		ENANCE	ļ		
127	Water Monitoring During Liability Period	SITEMAINT	1	60.00	\$55,844
126	Weed Managment Over Liability Period	REVEGE	1	0.00	\$10,930
120	Structures Mobilize/Demobilize Equipment from Hayden	MOBILIZE	1	3.33	\$38,407
111	Materials Demolish and Remove South Facilites and	DEMOLISH	1	190.00	\$375,177
110	Demolish and Remove North Facilities and	DEMOLISH	1	134.00	\$261,284
106	Seed Phase II Released BRB4	REVEGE	1	231.20	\$208,912
104	Seed Remaining BRB-2 and BRB-3 Area	REVEGE	1	68.01	\$61,454
	Locations		1		
102	Reseed Drill Pads and Geotechnical Hole	REVEGE	1	3.00	\$990
101	Reseed Reclamed Roads	REVEGE	1	7.10	\$10,378
100	Reseed South Facilities Areas	REVEGE	1	38.40	\$52,437
090 100	Drillhole/Monitoring Well Sealing Reseed North Facilities Areas	REVEGE	1	7.20	\$170,005 \$11,225
080	Seal Mine Shafts and Portals	MINESEAL BOREHOLE	1	32.00 233.00	\$56,563
070	Replace Topsoil on Lower Sump	DOZER	1	4.74	\$1,825
069	Replace Topsoil on Upper Sump	DOZER	1	6.64	\$2,555
	CCU58, CCU67, CCU84,				
066 068	Replace Topsoil on COV11, CCU31, CCU47,	DOZER	1	6.64	\$12,403
	Replace Topsoil on Haulroad D Location	SCRAPER1	{	6.35	\$12,405
064 065	Replace Topsoil on Haulroad A/A-1 Reduction Replace Topsoil on Haulroad B Reduction	SCRAPER1 SCRAPER1	1	24.94 15.32	\$48,749 \$29,948
063	Replace Topsoil on South Facilities Storage Areas	SCRAPER1	1	37.67	\$66,465
062	Replace Topsoil on South Utility Pads	SCRAPER1	1	17.86	\$31,505

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02				Total =	\$59,406
Performance bond:	1.05				Total =	\$30,879
Job superintendent:	1,029.14				Total =	\$77,319
Profit:	10.00				Total =	\$294,090
				TOTAL	) & P =	\$461,695
		CONT	RACT AMO	OUNT (direct + C	) & P) =	\$3,402,594
LEGAL - ENGINEERING - PR	OJECT MANAC	GEMENT	:			
Financial warranty process	ing (lagel/related	(acete)	\$500		Total –	\$500

TOTAL BO	ND AMOUNT (d	lirect + indirect) =	\$3,681,766
	TOTAL II	NDIRECT COST =	\$740,867
CONTINGENCY:	0.00	Total =	\$0
Reclamation management and/or administration:	3.58		\$121,813
Engineering work and/or contract/bid preparation:	4.61	Total =	\$156,860
Financial warranty processing (legal/related costs):	\$500	Total =	\$500

With Earlier         Land         Land <thland< th="">         Land         Land</thland<>	Task description:	Haul Ba	nckfill Mat. fr	om Coal Handling	Fac. to Portal		
Task #       001         Date:       2142/023         County:       Routt         Maint       Filename:         O01         Agency or organization name:       DRMS         Equipment Description         Truck Loader Team       Cat 700         -Inade:       CAT 708         -Jonade:       CAT 988H         Support Equipment -Load Area:       Cat D10T - 10SU         -Jonade:       CAT 988H         Support Equipment -Load Area:       Cat D10T - 10SU         -Jonade:       NA         Road Maintenance -Moor Grader:       NA         -Water Truck       Water Tarker, 10,000 Gal.         Water Truck       Loader       Load Area         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$90         Operating cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$91         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$92         Operating cost/hour:       \$57.9.42       \$93.69       \$153.67	Site: Peabody Sage C	reek Mine	Permit A	Action: MT3		Permit/Job#: <u>C2</u>	2009087
Date:       2/14/2023       County:       Rout       Filename:       001         User:       HRI	PROJECT IDEN	TIFICATION	<u>I</u>				
User: HRI Agency or organization name: DRMS HOURLY EQUIPMENT COST Fuck Loader Team -Truck: Cat 7700 Truck Loader Team -Truck: Cat 7700 Truck Loader Team -Truck: Cat 700 Truck Loader Team -Truck: Cat D10T - 10SU -Dump Area: NA Road Maintenance -Motor Grader: NA Nater Truck: Water Tanker, 10,000 Gal. Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment Wuter Truck: Water Tanker, 10,000 Gal. Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment %Utilization-machine: 100 95 100 NA NA Ownership cost/hour: \$79.42 \$93.60 \$153.67 NA NA Ownership cost/hour: \$70.82 \$80.94 \$166.94 NA NA \$33 %Utilization-riper: NA 0 NA NA \$33 %Utilization-riper: NA 0 NA NA \$33 %Utilization-riper: NA 0 NA NA \$32 Unit Subtotals: \$183.22 \$215.34 \$361.91 NA NA \$34 Operator cost/hour: \$12.98 \$40.71 \$41.30 NA NA \$32 Unit Subtotals: \$183.22 \$215.34 \$361.91 NA NA \$34 Operator cost/hour: \$1.163.56 Support: \$361.91 Maint: \$145.42 Total work team cost/hour: \$1.670.89 MATERIAL QUANTITIES Material Purchase Cost: \$0.00 Total Cost: \$0.00	Task #: 001		State: Co	olorado	Ab	breviation: No	ne
Agency or organization name:       DRMS         Different COST         Shift basis: Lper day         Equipment Description         Truck Loader Team - Truck:       Cat 770D         CAT 988H         One of the second colspan="2">One of the second colspan="2">One of the second colspan="2">One of the second colspan="2">Support Equipment - Truck Loader Team         One of the second colspan="2">Support Equipment Colspan="2">Maintenance Equipment Maintenance Equipment - Water Truck:         Vater Truck       Load Area       Dump Area       Motor Grader       Water Truck         %Utilization-machine:       100       95       100       NA       NA         Ownership costhour:       \$79.42       \$93.69       \$153.67       NA       NA       \$90.00         Operating costhour:       \$79.42       \$93.69       \$153.67       NA       NA       \$90.00         Operating costhour:       \$79.42       \$93.69       \$153.67       NA       NA       \$90.00         Operating costhour:       \$70.82       \$80.04       \$166.94       NA       NA       \$20.00         Ripper or costhour:       NA       \$0.00       NA       NA       \$20.00       NA       NA       \$42.00<		2023	County: Ro	outt		Filename: 001	l
Bit basis: Lpr day         Equipment Description         Truck Loader Team -Truck: Cat 770D         Cat 70D         Support Equipment Touck: Cat 7988H         Support Equipment Touck: Oat DIOT - 10SU         -Dump Area: NA         Road Maintenance -Motor Grader: NA         -Water Truck: Water Tanker, 10,000 Gal.         Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment         %Utilization-machine:       100       95       100       NA       NA         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$99         Operating cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$40         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$40         @utilization-machine:       100       \$5       100       NA       NA       \$40         @utilization-riper:       NA       0       NA       NA       \$40         @utilization-riper:       NA       \$00       \$0.00       NA       NA       \$20         Utili Subtotals:       \$183.22       \$215.34       \$361.91<	User: HR1						
Equipment Description         Truck Loader Team -Truck:       Cat 770D         Cat 7988H       Cat 7988H       Cat 7000         Support Equipment -Load Area:       Cat D107 - 108U         -Dump Area:       NA         Road Maintenace –Motor Grader:       NA       Maintenance Equipment       Maintenance Equipment         -Water Truck:       Water Tanker, 10,000 Gal.       Vater Truck       Water Truck       Water Truck         %Utilization-machine:       100       95       100       NA       NA         Soupcothour:       S70.82       \$80.94       \$166.94       NA       NA         Support costhour:       S70.82       \$80.94       \$166.94       NA       NA         Ripper own. costhour:       S12.82       \$81.93.67       NA       NA       \$32.94         Support costhour:       S70.82       \$80.94       \$166.94       NA       NA       \$32.94         Support costhour:       S70.82       \$80.94       \$166.94       NA       NA       \$32.94         Operating costhour:       S70.82       \$80.94       \$166.94       NA       NA       \$32.94         Ripper own. costhour:       S32.98       \$40.71	Agency or	organization nar	me: DRMS				
Truck Loader Team -Truck: -Load Area: Cat D107 - 10SU         Support Equipment - Load Area: -Dump Area: NA         Road Maintenance -Motor Grader: -Water Truck:       NA         Cost Breakdown:       Truck/Loader Team       Support Equipment       Maintenance Equipment         Water Truck:       Water Tanker:       NA       Maintenance Equipment         % Utilization-machine:       100       95       100       NA       NA         Øwnership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$91         Operating cost/hour:       \$70.82       \$80.94       \$166.94       NA       NA       \$32         % Utilization-riper:       NA       0       NA       NA       NA       \$32         % Utilization scothour:       NA       \$0.00       \$0.00       NA       NA       \$32         % Utilization scothour:       NA       \$0.00       \$0.00       NA       NA       \$32         % Utilization scothour:       NA       \$0.00       \$0.00       NA       NA       \$32         Water Tau       0       NA       NA       NA       \$32       \$361.91       NA       \$32         Unit Subtotals:       \$183.22       \$215.34<	HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
-Loader:       CAT 988H         Support Equipment -Load Area       Cat D10T - 10SU        Dump Area:       NA         Road Maintenance -Motor Grader:       NA        Water Truck:       Water Tanker, 10,000 Gal.         Cost Breakdown:         Truck       Loader       Load Area         Dump Area:       Motor Grader       Water Tanker, 10,000 Gal.         *Utilization-machine:       100       95       100       NA         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA         Operating cost/hour:       \$70.82       \$80.94       \$166.94       NA       NA         Ripper op. cost/hour:       NA       0       NA       NA       \$32         Operating cost/hour:       NA       \$0.00       NA       NA       \$42         Operator cost/hour:       NA       \$0.00       NA       NA       \$21         Unit Subtotals:       \$183.22       \$215.34       \$361.91       NA       NA         Number of Units:       4       2       1       0       0         Group Subtotals:       Work:       \$1,163.56       Support:       \$361.91       Maint:       \$145.42				Equipment Descr	iption		
Support Equipment -Load Area: -Dump Area:       Cat D10T - 10SU         NA       NA         Road Maintenance -Motor Grader:       NA	]	Fruck Loader Tea					
Image: Note of the second s							
Road Maintenance -Motor Grader: Water Truck:         NA Water Tanker, 10,000 Gal.           Cost Breakdown:         Truck/Loader Team         Support Equipment         Maintenance Equipment           %Utilization-machine:         100         95         100         NA         NA           %Utilization-machine:         100         95         100         NA         NA           @ownership cost/hour:         \$79.42         \$93.69         \$153.67         NA         NA         \$90           Operating cost/hour:         \$77.82         \$80.94         \$166.94         NA         NA         \$33           %Utilization-riper:         NA         0         NA         NA         NA         \$32           %Utilization-riper:         NA         0         NA         NA         NA         \$32           %Utilization-riper:         NA         \$0.00         \$0.00         NA         NA         \$32           Ripper ow. cost/hour:         S13.2.98         \$40.71         \$41.30         NA         NA         \$32           Unit Subtotals:         \$1670.89         \$165.05         Support:         \$361.91         Maint:         \$145.42           Number of Units:         4         2         1         0	Supp						
-Water Truck:       Water Tanker, 10,000 Gal.         Cost Breakdown:       Truck/Loader Team       Support Equipment       Maintenance Equipment         % Utilization-machine:       100       95       100       NA       NA         % Utilization-machine:       100       95       100       NA       NA         Ownership cost/hour:       \$79.42       \$93.69       \$153.67       NA       NA       \$91         Operating cost/hour:       \$70.82       \$80.94       \$166.94       NA       NA       \$93         % Utilization-riper:       NA       0       NA       NA       \$32       \$00       NA       \$33         % Utilization-riper:       NA       0       NA       NA       \$32       \$000       \$0.00       NA       NA       \$32         @ Operator cost/hour:       \$32.98       \$40.71       \$41.30       NA       NA       \$32         Unit Subtotals:       \$183.22       \$215.34       \$361.91       NA       NA       \$32         Unit Subtotals:       Work:       \$1,163.56       Support:       \$361.91       Maint:       \$145.42         Total work team cost/hour:       \$1.670.89       CCY       Swell factor:       1	Road M						
Truck         Loader         Load Area         Dump Area         Motor Grader         Water Tru           %Utilization-machine:         100         95         100         NA         NA           Ownership cost/hour:         \$79.42         \$93.69         \$153.67         NA         NA         \$91           Operating cost/hour:         \$70.82         \$80.94         \$166.94         NA         NA         \$32           %Utilization-riper:         NA         0         NA         NA         NA         \$32           %Utilization-riper:         NA         0         NA         NA         \$32           %Utilization-riper:         NA         \$0.00         NA         NA         \$32           %Utilization-riper:         NA         \$0.00         S0.00         NA         NA           Ripper own. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$32.98           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$145.42           Total work team cost/hour:         \$1.670.89					0 Gal.		
Truck         Loader         Load Area         Dump Area         Motor Grader         Water Tru           %Utilization-machine:         100         95         100         NA         NA           Ownership cost/hour:         \$79.42         \$93.69         \$153.67         NA         NA         \$91           Operating cost/hour:         \$70.82         \$80.94         \$166.94         NA         NA         \$33           %Utilization-riper:         NA         0         NA         NA         NA         \$32           %Utilization-riper:         NA         0         NA         NA         \$33         \$36           Ripper own. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$32           Operator cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$32           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$145.42           Total work team cost/hour:         \$1.670.89         LCY         Source of estimated woulme:         S1670.89         S0.00         <	Cost Breakdown:	Truck/Loa	ader Team	Support	Equipment	Maintenan	ce Equipment
Ownership cost/hour:         \$79.42         \$93.69         \$153.67         NA         NA         \$99           Operating cost/hour:         \$70.82         \$80.94         \$166.94         NA         NA         \$33           %Utilization-riper:         NA         0         NA         NA         NA         \$32           %Utilization-riper:         NA         \$0.00         \$0.00         NA         NA         \$36           Ripper own. cost/hour:         \$32.98         \$40.71         \$41.30         NA         NA         \$32           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$145           Number of Units:         4         2         1         0         0         0         0           Group Subtotals:         Work:         \$1,163.56         Support:         \$361.91         Maint:         \$145.42      <							Water Truck
Operating cost/hour:         \$70.82         \$80.94         \$166.94         NA         NA         \$33           %Utilization-riper:         NA         0         NA         NA         NA         NA         NA           Ripper own. cost/hour:         NA         \$0.00         \$0.00         NA         NA         NA         \$40           Ripper own. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$40           Ripper op. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$40           Operator cost/hour:         \$32.98         \$40.71         \$41.30         NA         NA         \$52           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$145           Number of Units:         4         2         1         0<	%Utilization-machine:	100	Ģ	95 100	NA	NA	25
%Utilization-riper:         NA         0         NA         NA         NA           Ripper own. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$100           Ripper op. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$100           Operator cost/hour:         \$32.98         \$40.71         \$41.30         NA         NA         \$21           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$145           Number of Units:         4         2         1         0         0         0           Group Subtotals:         Work:         \$1,163.56         Support:         \$361.91         Maint:         \$145.42           Total work team cost/hour:         \$1,670.89	Ownership cost/hour:	\$79.42	\$93.0	69 \$153.67	NA	NA	\$91.73
Ripper own. cost/hour:NA $\$0.00$ $\$0.00$ NANA $\$0.00$ Ripper op. cost/hour:NA $\$0.00$ $\$0.00$ NANANA $\$0.00$ Operator cost/hour: $\$32.98$ $\$40.71$ $\$41.30$ NANA $\$21$ Unit Subtotals: $\$183.22$ $\$215.34$ $\$361.91$ NANA $\$145$ Number of Units:421000Group Subtotals:Work: $\$1,163.56$ Support: $\$361.91$ Maint: $\$145.42$ Total work team cost/hour: $\$1,670.89$	Operating cost/hour:	\$70.82	\$80.9	94 \$166.94	NA	NA	\$32.57
Ripper op. cost/hour:         NA         \$0.00         \$0.00         NA         NA         \$60           Operator cost/hour:         \$32.98         \$40.71         \$41.30         NA         NA         \$82           Unit Subtotals:         \$183.22         \$215.34         \$361.91         NA         NA         \$\$145           Number of Units:         4         2         1         0         0         0           Group Subtotals:         Work:         \$1,163.56         Support:         \$361.91         Maint:         \$145.42           Total work team cost/hour:         \$1,670.89	%Utilization-riper:	NA		0 NA	NA	NA	NA
Operator cost/hour:       \$32.98       \$40.71       \$41.30       NA       NA       \$\$21         Unit Subtotals:       \$183.22       \$215.34       \$361.91       NA       NA       \$\$145         Number of Units:       4       2       1       0       0       0         Group Subtotals:       Work:       \$\$1,163.56       Support:       \$\$361.91       Maint:       \$\$145.42         Total work team cost/hour: <b>\$1,670.89</b>	Ripper own. cost/hour:	NA	\$0.0	00 \$0.00	NA	NA	\$0.00
Unit Subtotals:       \$183.22       \$215.34       \$361.91       NA       NA       \$145         Number of Units:       4       2       1       0       0       0         Group Subtotals:       Work:       \$1,163.56       Support:       \$361.91       Maint:       \$145.42         Total work team cost/hour:       \$1,670.89	Ripper op. cost/hour:	NA	\$0.0	00 \$0.00	NA	NA	\$0.00
Number of Units:       4       2       1       0       0         Group Subtotals:       Work:       \$1,163.56       Support:       \$361.91       Maint:       \$145.42         Total work team cost/hour:       \$1.670.89	Operator cost/hour:	\$32.98	\$40.7	71 \$41.30	NA	NA	\$21.12
Group Subtotals:       Work:       \$1,163.56       Support:       \$361.91       Maint:       \$145.42         Total work team cost/hour:       \$1,670.89       Maint:       \$145.42         MATERIAL QUANTITIES       Maint:       \$145.42         Initial volume:       291,017       CCY       Swell factor:       1.125         Loose volume:       327,394       LCY       Division of Reclamation, Mining & Safety       Cat Handbook         Source of estimated volume:       Division of Reclamation, Mining & Safety       Cat Handbook       90.00         Material Purchase Cost:       \$0.00       00       90.00         HOURLY PRODUCTION       \$1,650       Pounds/LCY       Description:       Decomposed rock - 25% Rock, 75% Earth         Material weight:       2,650       Pounds       Pounds	Unit Subtotals:	\$183.22	\$215.3	34 \$361.91	NA	NA	\$145.42
Total work team cost/hour:       \$1,670.89         MATERIAL QUANTITIES         Initial volume:       291,017         Loose volume:       327,394         LCY         Source of estimated volume:         Source of estimated swell factor:         Material Purchase Cost:         %0.00         Total Cost:         %0.00         HOURLY PRODUCTION         Material weight:         2,650         Pounds/LCY         Material weight:         2,650         Pounds/LCY         Description:         Decomposed rock - 25% Rock, 75% Earth	Number of Units:	4		2 1	0	0	1
MATERIAL QUANTITIES         Initial volume:       291,017       CCY       Swell factor:       1.125         Loose volume:       327,394       LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         Butterial Purchase Cost:       \$0.00         Source of estimated swell factor:       \$0.00         Total Cost:       \$0.00         Butterial Purchase Cost:       \$0.00         Total Cost:       \$0.00         Butterial Purchase Cost:       \$0.00         Source of estimated swell factor:       \$0.00         Total Cost:       \$0.00         Butterial Purchase Cost:       \$0.00         Butterial Cost:       \$0.00         Butterial Purchase Cost:       \$0.00         Butterial Cost:       \$0.00         Butterial Purchase Cost:       Butterial Purchase Costerial Purchase Costerial Purchase Costerial Purchase Costerial Pu	Group Subtotals:	Work:	\$1,163.56	Support:	\$361.91	Maint:	\$145.42
Initial volume:       291,017       CCY       Swell factor:       1.125         Loose volume:       327,394       LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         State Capacity:       Truck Capacity:         Material weight:       2,650         Pounds/LCY       Description:         Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000	Total work team co	st/hour: <u>\$1,670.</u>	89				
Loose volume:       327,394       LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         Source of estimated swell factor:       \$0.00         Total Cost:       \$0.00         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         Material veight:       2,650         Pounds/LCY       Description:         Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000	MATERIAL QU	ANTITIES					
Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         HOURLY PRODUCTION       \$0.00         Truck Capacity:       Truck Payload (weight) Basis:         Material weight:       2,650         Pounds/LCY         Description:       Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000		,			factor: 1.125		
Source of estimated swell factor:       Cat Handbook         Material Purchase Cost:       \$0.00         Total Cost:       \$0.00         HOURLY PRODUCTION       \$0.00 <u>Truck Capacity:</u> Truck Payload (weight) Basis:         Material weight:       2,650       Pounds/LCY         Description:       Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000       Pounds		· · · · · ·			on Mining & Safe	etv	
Total Cost:       \$0.00         HOURLY PRODUCTION         Truck Capacity:         Truck Payload (weight) Basis:         Material weight:       2,650         Pounds/LCY         Description:       Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000							
HOURLY PRODUCTION         Truck Capacity:         Truck Payload (weight) Basis:         Material weight:       2,650         Pounds/LCY         Description:       Decomposed rock - 25% Rock, 75% Earth         Rated Payload:       82,000		Material Purch					
Truck Capacity:Truck Payload (weight) Basis:Material weight:2,650Description:2,650Rated Payload:82,000Pounds		То	otal Cost: \$	0.00			
Truck Payload (weight) Basis:Material weight:2,650Pounds/LCYDescription:Decomposed rock - 25% Rock, 75% EarthRated Payload:82,000Pounds	HOURLY PRO	DUCTION					
Truck Payload (weight) Basis:Material weight:2,650Pounds/LCYDescription:Decomposed rock - 25% Rock, 75% EarthRated Payload:82,000Pounds							
Description:Decomposed rock - 25% Rock, 75% EarthRated Payload:82,000Pounds	Truck Payload (wei				_		
Rated Payload: 82,000 Pounds							
					h		
Payload Capacity: 30.94 LCY				LCY			

		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	30.94	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	30.36	LCY	
Loading Tool Capacity						
<u> </u>			Buc	ket Size Class: N	A	
Rated Capacity:	9.200	LCY (heaped)				_
Bucket Fill Factor:	0.825		avg. blasted (75	- 90%) 0.825		-
Adjusted Capacity:	7.590	LCY	0	,		_
Job Condition Corrections:	_	S	Site Altitude (ft.):	<u>6800</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	· · · · · · · · · · · · · · · · · · ·		
Net Correction:	0.830	0.830				
	NT 1				4	
Loading Tool Cycle Time:		r of Loading Tool P	asses Required to	Fill I ruck:	4 1	Dasses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs	s. Job Condition	n Rating: NA				
Selected Value v	vithin this Basi					
Selected Value v Track Loaders –		c Rating: NA				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):		c Rating: NA				
Track Loaders –	Material Descr	c Rating: NA		 Dump: 0.100	)	
Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u>	Material Descr N	c Rating: NA iption: Ianeuver: NA		1		
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	Material Descr N	c Rating: NA iption: Ianeuver: NA	ime (load, dump,	1	.575 minu	ıtes
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	Material Descr  Unadjusted Ba	c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, i	maneuver): 0 Factor (min.)	.575 minu Source	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	Material Descr  Unadjusted Ba  Mixed materi	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ial 0.02		maneuver):0 Factor (min.) 0.020	.575 minu Source (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Material Descr  Unadjusted Ba  Mixed materi Conveyor or	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ial 0.02 dozer piled 10 ft. hig	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000	.575 minu Source (Cat HB) (Cat HB)	utes 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000 -0.040	.575 mint Source (Cat HB) (Cat HB) (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope	c Rating: NA iption: laneuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes   
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own	c Rating: NA iption: laneuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. high nership of trucks and ration -0.04 et 0.00	gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes   
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. high nership of trucks and ration -0.04 et 0.00 Net Cycle Ti	gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes   
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites  
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	Ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Ites    
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own Constant ope Nominal targ	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Material Descr	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. high nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	Material Descr Material Descr Unadjusted Ba Mixed materi Conveyor or Common own Constant ope Nominal targ	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti al 0.02 dozer piled 10 ft. high nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 I for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	utes 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Material Descr Material Descr Unadjusted Ba Mixed materi Conveyor or Common own Constant ope Nominal targ	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ial 0.02 dozer piled 10 ft. high nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 1 for site altitude: 1 for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.645 1.000	     Minute

Haul Rou							<b>m</b> 1	
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	950.00	)	-5.00	3.00	-2.00	3893	0.294	
					Haul Time:	0.294	minutes	
Return Re	oute:				_			
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	950.00	)	5.00	3.00	8.00	2120	0.572	
				Total Tru	Return Time: ck Cycle Time:	0.572 4.111	minutes	
Loading Too Produ Fruck Unit Produ	uction	811.40	LCY/Hour		Adjusted for j	ob efficiency:	673.46	_ LCY/Hour
		443.10	LCY/Hour		Adjusted for j	ob efficiency:	367.78	LCY/Hour
ptimal No. of T	rucks:	2	Truck(s)		Selected Numb	per of Trucks:	2	Truck(s)
				le truck/loade	k team productio er team productio er team productio	on: 673.	.46 LCY/I	Hour
JOB TI	ME AN	D COST						
Fleet	size:	2	2 Team(s)		Fotal job time:	243.0	Hou	rs
Unit	cost:	\$1.241	/LCY		Total job cost:	\$406,1	38	

Task description:	Haul Ba	ckfill Mater	ial f	rom Utility Pad A	Area to Portal Fa	ice-	
Site: Peabody Sage C	reek Mine	Permit	Actio	on: MT3		Permit/Job#: <u>C2</u>	2009087
PROJECT IDEN	TIFICATION						
Task #: $002$ Date: $2/14/2$ User:HR1		County: R	colora coutt	ado	Ab	breviation: No Filename: 002	
Agency or	organization nan	ne: DRMS	5				
HOURLY EQUI	PMENT COST	<u>r</u>			Shift bas	sis: <u>1 per day</u>	
				Equipment Descri	ption		
Т	ruck Loader Tea			770D T 988H			
Supp	ort Equipment -L	-Loader: oad Area:		D10T - 10SU			
	-Dı	imp Area:	NA				
Road M	aintenance – Mote		NA				
	-Wa	ter Truck:	Wat	ter Tanker, 10,000	) Gal.		
Cost Breakdown:	Truck/Loa	der Team		Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		95	100	NA	NA	25
Ownership cost/hour:	\$79.42	\$93		\$153.67	NA	NA	\$91.73
Operating cost/hour:	\$70.82	\$80		\$166.94	NA	NA	\$32.57
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0	.00	\$0.00	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0	.00	\$0.00	NA	NA	\$0.00
Operator cost/hour:	\$32.98	\$40	.71	\$41.30	NA	NA	\$21.12
Unit Subtotals:	\$183.22	\$215	.34	\$361.91	NA	NA	\$145.42
Number of Units:	6		3	1	0	0	1
Group Subtotals:	Work:	\$1,745.34		Support:	\$361.91	Maint:	\$145.42
Total work team cos		67					
Initial volume: Loose volume:			CCY LCY		factor: <u>1.125</u>		
	urce of estimated of estimated swe Material Purcha To	ase Cost:			on, Mining & Safe	ety	
HOURLY PRO	<b>DUCTION</b>						
<u>Truck Capacity:</u> <u>Truck Payload (weig</u> Material w Descr Rated Pa Payload Cap	veight: 2,650 iption: Decom yload: 82,000	•	25%	Pounds/LCY Rock, 75% Earth Pounds LCY			

Struck Volume:	01 (0 T	CV				
		LCY				
A XI . l		LCY				
Average Volume:		LCY				
Adjusted Volume:	30.94 I	LCY				
Final	Truck Volume l	Based on Number of	f Loader Passes:	30.36	LCY	
Loading Tool Capacity						
		1	Buch	ket Size Class: <u>N</u>	A	_
Rated Capacity:	9.200	LCY (heaped)	11 1 /22	0.000		-
Bucket Fill Factor:	0.825		vg. blasted (75	- 90%) 0.825		-
Adjusted Capacity: _	7.590	LCY				
Job Condition Corrections:	<u>,</u>	Si	te Altitude (ft.): 6	<u>5800</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
		0.020				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to 1	Fill Truck:	p	asses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time v	a Job Condition	Dating: NA				
Selected Value v						
Track Loaders –	Material Descrip	ption:				
Cycle Time Elements (min.):						
Load: NA	Ma	aneuver: NA		Dump: 0.100	1	
Wheel and Treat London	-	ia Laadar Cyala Tir	ma (load dumm r		575 minu	too
Wheel and Track Loaders -	Unadjusted Bas	sic Loader Cycle 11	ne (load, dump, f		<u>575</u> minu	ites
Cycle Time Factors	Mine danatania	10.02		Factor (min.)	Source	_
Material:	Mixed materia		h and up 0.00	0.020	(Cat HB)	
Ctoolmil-		ozer piled 10 ft. hig				_
Stockpile:	Truck Ownership: Common ownership o				(Cat HB)	_
Truck Ownership:				-0.040	(Cat HB)	_
Truck Ownership: Operation:	Constant opera	ation -0.04		-0.040 -0.040	(Cat HB) (Cat HB)	-
Truck Ownership:		ation -0.04 t 0.00	loaders -0.04	-0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB)	- - -
Truck Ownership: Operation:	Constant opera	ation -0.04 t 0.00 Net Cycle Tin	loaders -0.04 ne Adjustment:	-0.040 -0.040 0.000 -0.060	(Cat HB) (Cat HB) (Cat HB) minutes	-
Truck Ownership: Operation:	Constant opera	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	loaders -0.04 ne Adjustment:	-0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB)	-
Truck Ownership: Operation:	Constant opera	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	loaders -0.04 ne Adjustment: er Cycle Time:	-0.040 -0.040 0.000 -0.060 <b>0.515</b>	(Cat HB) (Cat HB) (Cat HB) minutes minutes	-
Truck Ownership: Operation: Dump Target:	Constant opera Nominal targe	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	-0.040 -0.040 0.000 -0.060 <b>0.515</b>	(Cat HB) (Cat HB) (Cat HB) minutes minutes	  Minute
Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Constant opera Nominal targe	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T	loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted	-0.040 -0.040 0.000 -0.060 <b>0.515</b> <b>1.645</b>	(Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	-
Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	Constant opera Nominal targe : 0.60 : 1.645	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	-0.040 -0.040 0.000 -0.060 <b>0.515</b> <b>1.645</b>	(Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	Minute Minute
Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time	Constant opera           Nominal targe           ::         0.60           ::         1.645           ::         1.00	ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	-0.040 -0.040 0.000 -0.060 <b>0.515</b> <b>1.645</b> for site altitude:	(Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600 1.645 1.000	Minute

Haul Rout							<b>T</b> 1	
Seg #	Haul Dista	ince	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	500.00		0.00	3.00	3.00	2754	0.632	
					Haul Time:	0.632	minutes	
Return Ro								
Seg #	Haul Dista	ince	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	500.00		0.00	3.00	3.00	4074	0.466	
					Return Time:	0.466	minute	es
				Total Tru	ck Cycle Time:	4.343	minute	es
Loading Tool	lunit							
Produ		811.40	LCY/Hour		Adjusted for j	ob efficiency:	673.46	LCY/Hour
Truck Unit Produ					5 5	2		
		419.43	LCY/Hour		Adjusted for j	ob efficiency:	348.13	LCY/Hour
Optimal No. of Tru	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 696	.26 LCY	//Hour
					er team production		.46 LCY	//Hour
			Adjusted multip	le truck/loade	er team production	on: <b>2,02</b>	0.39 LCY	//Hour
JOB TIN	<u>/IE AND C</u>	COST						
Fleet s	size:	3	Team(s)	r	Fotal job time:	102.1	2 He	ours
Unit c	cost:	\$1.115	/LCY	,	Total job cost:	\$230,0	32	

Site: Peabody Sage C	reek Mine	Permit Actio	on: MT3	·	Permit/Job#: <u>C2</u>	2009087
PROJECT IDEN           Task #:         003           Date:         2/14/2           User:         HR1		State: <u>Colora</u> County: <u>Routt</u>	ado	Ab	breviation: <u>No</u> Filename: <u>003</u>	
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COS	<u> </u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
Т	ruck Loader Tea		770D Г 988Н			
Supp	ort Equipment -L		D10T - 10SU			
	-Di	ump Area: Cat	D10T - 10SU			
Road M	aintenance – Mot		T. 1. 10.000			
	- W 2	ter Truck: Wat	ter Tanker, 10,000	J Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	100	100	NA	25
Ownership cost/hour:	\$79.42	\$93.69	\$153.67	\$153.67	NA	\$91.73
Operating cost/hour:	\$70.82	\$80.94	\$166.94	\$166.94	NA	\$32.57
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Operator cost/hour:	\$32.98	\$40.71	\$41.30	\$41.30	NA	\$21.12
Unit Subtotals:	\$183.22	\$215.34	\$361.91	\$361.91	NA	\$145.42
Number of Units:	4	2	1	1	0	<u> </u>
Group Subtotals:	Work:	\$1,163.56	Support:	\$723.82	Maint:	\$145.42
Total work team cos	t/hour: <u>\$2,032.</u>	80				
MATERIAL QU	ANTITIES					
Initial volume:	192,960	CCY	Swell	factor: 1.125		
Loose volume:	217,0	80 LCY				
So	urce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe		Iandbook		-	
	Material Purch	ase Cost: \$0.00 otal Cost: \$0.00				
	10		)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weight)	ght) Basis:					
Material w	veight: 2,650	1 1 4 4 4 4	Pounds/LCY			
Descr Rated Pa	·	*	Rock, 75% Earth Pounds	1		
Datad Da						

$\mathbf{C}_{4} = 1 \mathbf{V}_{2} 1$	21.60					
Struck Volume:		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	30.94	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	30.36	LCY	
Loading Tool Capacity						
			Buch	ket Size Class: N	IA	_
Rated Capacity:	9.200	LCY (heaped)				_
Bucket Fill Factor:	0.825		avg. blasted (75	- 90%) 0.825		-
Adjusted Capacity:	7.590	LCY				
Job Condition Corrections:	-	S	ite Altitude (ft.): 6	<u>6800</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	asses Required to 1	Fill Truck:	f	basses
Excavators and Front Shovel	s:					
Machine Cycle Time vs	s. Job Condition					
Machine Cycle Time vs Selected Value v	s. Job Condition within this Basic	e Rating: NA				
Machine Cycle Time vs	s. Job Condition within this Basic Material Descri	e Rating: NA				
Machine Cycle Time vs Selected Value v Track Loaders – T	s. Job Condition vithin this Basic Material Descri	e Rating: NA		 Dump: 0.100	)	
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Condition within this Basic Material Descri	c Rating: NA ption: aneuver: NA		I		
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Condition within this Basic Material Descri	c Rating: NA ption: aneuver: NA	me (load, dump, r	maneuver):0	.575 minu	ites
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Condition within this Basic Material Descri Material Descri Unadjusted Bas	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	maneuver):0 Factor (min.)	0.575 minu Source	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Condition within this Basic Material Descri Material Descri Unadjusted Bas	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02		maneuver):0 Factor (min.) 0.020	0.575 minu Source (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Condition within this Basic Material Descri Material Descri Material Descri Material Descri Mixed material	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti al 0.02 lozer piled 10 ft. hig	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000	Source (Cat HB) (Cat HB)	ites 
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Condition within this Basic Material Descri Material Descri Material Descri Mixed Descri Mixed materia Conveyor or d Common own	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 lozer piled 10 ft. hig tership of trucks and	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000 -0.040	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)	ites 
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basic Material Descri Material Descri Mixed Basic Mixed materia Conveyor or conveyor or constant oper	c Rating: NA ption:	gh and up 0.00	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040	0.575minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)	ites   
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Condition within this Basic Material Descri Material Descri Material Descri Mixed Descri Mixed materia Conveyor or d Common own	c Rating: NA ption:	gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basic Material Descri Material Descri Mixed Basic Mixed materia Conveyor or conveyor or constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 lozer piled 10 ft. hig rership of trucks and ration -0.04 et 0.00 Net Cycle Tin	gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites    
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basic Material Descri Material Descri Mixed Basic Mixed materia Conveyor or conveyor or constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites    
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition within this Basic Material Descri Material Descri Mixed Basic Mixed materia Conveyor or conveyor or constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515	.575     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	ites   
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition within this Basic Material Descri Material Descri Mixed materia Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645	.575     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       minutes     minutes       minutes     minutes	
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	s. Job Condition within this Basic Material Descri Material Descri Mixed materia Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	s. Job Condition within this Basic Material Descri Unadjusted Bas Mixed materia Conveyor or c Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 for site altitude: for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.645	    Minute:
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	s. Job Condition within this Basic Material Descri Unadjusted Bas Mixed materia Conveyor or c Common own Constant oper Nominal targe	c Rating: NA ption:	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	Ites 
Machine Cycle Time vs Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	s. Job Condition within this Basic Material Descri Unadjusted Bas Mixed materia Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti al 0.02 dozer piled 10 ft. hig nership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.515 1.645 for site altitude: for site altitude:	0.575     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       0.600     1.645       1.000	    Minute:

F	Haul Rou	ite:							_
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
-	1	1250.	00	-1.00	3.00	2.00	3843	1.131	-
L				I.		Haul Time:			
	Return Re	oute					1.131	minutes	į
Γ	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	]
		(Ft)		(///	(%)	(%)	(fpm)	Time (min)	
	1	1250.	00	1.00	3.00	4.00	3891	0.703	
						Return Time:	0.703	minut	
					Total True	ck Cycle Time:	5.079	minut	es
L	oading Too	ol unit							
		uction	811.40	LCY/Hour		Adjusted for j	ob efficiency:	673.46	LCY/Hour
Truck	Unit Produ	uction					1 000		
			358.65	LCY/Hour		Adjusted for j	ob efficiency:	297.68	LCY/Hour
Optima	al No. of T	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
						k team production			Y/Hour
						er team production			Y/Hour
				Adjusted multip	le truck/loade	er team production	on: <b>1,19</b>	0.73 LC	Y/Hour
	JOB TI	ME AN	ND COST						
	Fleet	size:	2	Team(s)	J	Fotal job time:	182.3	<b>B1</b> H	Iours
	Unit	cost:	\$1.707	/LCY	r	Total job cost:	\$370,5	97	

Site: Peabody Sage Cr	reek Mine	Permit Acti	on: MT3		Permit/Job#: C2	2009087
PROJECT IDEN	TIFICATION	[				
Task #: 004		State: Color	ado	Ab	breviation: No	ne
Date: 2/14/2	023	County: Routt			Filename: 004	1
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri	iption		
Т	ruck Loader Tea		770D	-		
			T 988H			
Suppo	ort Equipment -I		D10T - 10SU D10T - 10SU			
Road Ma	aintenance –Mot	1	T 14M			
			ter Tanker, 10,000	) Gal.		
<u>Cost Breakdown</u> :	Truck/Los Truck	ader Team Loader	Support Load Area	Equipment	Maintenan Motor Grader	ce Equipment Water Truck
	Писк	Loader	Load Area	Dump Area	Motor Grader	water fruck
Utilization-machine:	100	95	100	100	25	2
Ownership cost/hour:	\$79.42	\$93.69	\$153.67	\$153.67	\$114.80	\$91.7
Operating cost/hour:	\$70.82	\$80.94	\$166.94	\$166.94	\$19.85	\$32.5
%Utilization-riper:	NA	0	NA	NA	NA	N
ipper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$32.98	\$40.71	\$41.30	\$41.30	\$28.56	\$21.1
Unit Subtotals:	\$183.22	\$215.34	\$361.91	\$361.91	\$163.20	\$145.4
Number of Units:	4	1	1	1	1	
Group Subtotals:	Work:	\$948.22	Support:	\$723.82	Maint:	\$308.62
Total work team cos MATERIAL QUA		66				
Initial volume:	48,400	CCY	Swell	factor: 1.000		
Loose volume:	48,40	0 LCY				
Sou	urce of estimated	volume: Divi	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ell factor: Cat l	Handbook		•	
	Material Purch					
	10	otal Cost: \$0.0	0			
HOURLY PRO	DUCTION					
<u><b>Truck Capacity:</b></u> Truck Payload (weig	ght) Basis:					
Material w			Pounds/LCY	•		
Descri	·	Bituminous, Raw				
Rated Pa			Pounds			
Payload Cap	bacity: 51.25		LCY			

Heaped Volume: Average Volume:		LCY				
-	31.70	LCY				
	26.65	LCY				
Adjusted Volume:	31.70	LCY				
Fi	nal Truck Volun	ne Based on Nu	mber of Loader Passe	s: <b>25.53</b>	LCY	
Loading Tool Capacity						
<u> </u>			B	ucket Size Class:	NA	
Rated Capacity	9.200	LCY (he			1111	_
Bucket Fill Factor			naterial - $1/8$ " to $3/8$ " (	(90 - 95%) 0 925		_
Adjusted Capacity		LOOSE III		0 9570 0.925		_
Job Condition Correction	ne•		Site Altitude (ft.	): 6800 feet		
	Truck	Loade		-		
Altitude Adj:	1.000	1.000				
Job Efficiency:	0.830	0.830		· · · · · · · · · · · · · · · · · · ·		
Net Correction:	0.830	0.830	)			
Looding Tool Cuole The	N			to Fill Truck	2	200000
Loading Tool Cycle Tin		ber of Loading I	Fool Passes Required	to Fill Truck:	3 1	basses
	overs.					
Excavators and Front Sho						
Machine Cycle Tim			NA NA			
Machine Cycle Tim Selected Val	e vs. Job Condit	sic Rating: N				
Machine Cycle Tim Selected Val	e vs. Job Condit ue within this Ba s – Material Des	sic Rating: N				
Machine Cycle Tim Selected Val Track Loader	e vs. Job Condit ue within this Ba s – Material Des n.):	nsic Rating:		 Dump:0.1	00	
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi	e vs. Job Condit ue within this Ba s – Material Des n.):	nsic Rating:	NA	1	00 0.575 minu	Ites
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: <u>NA</u> Wheel and Track Loade	e vs. Job Condit ue within this Ba s – Material Des n.): 	nsic Rating:	NA	p, maneuver):	0.575 min	ıtes
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: <u>NA</u> Wheel and Track Loade Cycle Time Facto	e vs. Job Condit ue within this Ba s – Material Des n.):  rs - Unadjusted I	nsic Rating: cription: Maneuver: Basic Loader Cy	NA NA ycle Time (load, dumj	o, maneuver): Factor (min.)	0.575 min	ites
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: <u>NA</u> Wheel and Track Loade <u>Cycle Time Facto</u> Materia	e vs. Job Condit ue within this Ba s – Material Des n.):  rs - Unadjusted I	nsic Rating: cription: Maneuver: Basic Loader C 8" to 3/4" diame	NA NA ycle Time (load, dump eter -0.02	5, maneuver): Factor (min.) -0.020	0.575 minu Source (Cat HB)	ites 
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: <u>NA</u> Wheel and Track Loade Cycle Time Facto	e vs. Job Condit ue within this Ba s – Material Des n.):  rs - Unadjusted I rs    rs    rs    rs    translation (1/2) (Conveyor content)	nsic Rating: cription: Maneuver: Basic Loader Cy 8" to 3/4" diamo or dozer piled 10	NA NA ycle Time (load, dumj	o, maneuver): Factor (min.)	0.575 min	utes  
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs l: Material 1/2 e: Conveyor co o: Common o	nsic Rating: cription: Maneuver: Basic Loader Cy 8" to 3/4" diamo or dozer piled 10	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00	, maneuver): Factor (min.) -0.020 0.000	0.575 minu Source (Cat HB) (Cat HB)	utes 
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs - l: Material 1/2 e: Conveyor co o: Common o n: Constant op	Asic Rating: cription: Maneuver: Basic Loader Cy 8" to 3/4" diame or dozer piled 10 wnership of true peration -0.04	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00	, maneuver): Factor (min.) -0.020 0.000 -0.040	0.575 minu Source (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs - l: Material 1/2 e: Conveyor co o: Common o n: Constant op	Asic Rating: cription: Maneuver: Basic Loader Cy 8" to 3/4" diamon or dozer piled 10 wnership of truc peration -0.04 rget 0.00 Net Cy	NA ycle Time (load, dump eter -0.02 D ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment	Factor (min.)           -0.020           0.000           -0.040           -0.040           0.000           :	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites 
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs - l: Material 1/2 e: Conveyor co o: Common o n: Constant op	Asic Rating: Naneuver: Nan	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment d Loader Cycle Time	Factor (min.)       -0.020       0.000       -0.040       -0.040       -0.040       0.000       :     -0.100       :     0.475	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites    
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs - l: Material 1/2 e: Conveyor co o: Common o n: Constant op	Asic Rating: Naneuver: Nan	NA ycle Time (load, dump eter -0.02 D ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment	Factor (min.)       -0.020       0.000       -0.040       -0.040       -0.040       0.000       :     -0.100       :     0.475	0.575 minutes	utes  
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio	e vs. Job Condit ue within this Ba s – Material Des n.): rs - Unadjusted I rs - l: Material 1/2 e: Conveyor co o: Common o n: Constant op	Asic Rating: Naneuver: Nan	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment d Loader Cycle Time	Factor (min.)       -0.020       0.000       -0.040       -0.040       -0.040       0.000       :     -0.100       :     0.475	0.575 minutes minutes	utes  
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio Dump Targe	e vs. Job Condit ue within this Ba s – Material Des n.):  rs - Unadjusted I  rs -	Asic Rating: Naneuver: Nan	NA VA ycle Time (load, dump eter -0.02 0 ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment of Loader Cycle Time Load Time per Truck	Factor (min.)       -0.020       0.000       -0.040       -0.040       -0.040       0.000       :     -0.100       :     0.475	0.575 minutes minutes	
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio Dump Targe	e vs. Job Condit ue within this Ba s – Material Des n.): 	Asic Rating: N cription: Stription: N Maneuver: M Basic Loader C 8" to 3/4" diamo or dozer piled 10 wnership of truc peration -0.04 rget 0.00 Net Cy Adjuste Net	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment d Loader Cycle Time Load Time per Truck Adjust	b, maneuver): Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 : -0.100 : 0.475 : 1.050	0.575 minutes	   
Machine Cycle Tim Selected Val Track Loader Cycle Time Elements (mi Load: NA Wheel and Track Loade Cycle Time Facto Materia Stockpil Truck Ownershi Operatio Dump Targe	e vs. Job Condit ue within this Ba s – Material Des n.): 	Asic Rating: cription: Maneuver: Basic Loader Cy 8" to 3/4" diamon or dozer piled 10 wnership of true peration -0.04 rget 0.00 Net Cy Adjuste Net Minutes	NA VA ycle Time (load, dump eter -0.02 ) ft. high and up 0.00 cks and loaders -0.04 vcle Time Adjustment vd Loader Cycle Time Load Time per Truck Adjust Adjust	$\begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ \hline & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	utes 

Haul Route:

	Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
-	1	365.00	)	-2.60	3.00	0.40	4254	0.622	
	2	525.00	)	-8.69	3.00	-5.69	1693	0.437	
	3	1760.0	00	-6.25	3.00	-3.25	3053	0.642	
-	4	900.00	)	-5.30	3.00	-2.30	3893	0.286	
	Return R	oute:				Haul Time:	1.987	minu	utes
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	0	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	900.00	)	5.30	3.00	8.30	2120	0.555	
	2	1760.0	00	6.25	3.00	9.25	2000	0.878	
	3	525.00		8.69	3.00	11.69	1477	0.321	
	4	365.00	)	2.60	3.00	5.60	2851	0.277	
					Total True	Return Time: ck Cycle Time:			inutes inutes
	oading Too Produ Unit Produ	uction	928.36	LCY/Hour		Adjusted for j	ob efficiency:	770.:	54 LCY/Hour
Truck	C int i iou		229.72	LCY/Hour		Adjusted for j	ob efficiency:	190.	67 LCY/Hour
Optima	al No. of T	rucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	ed hourly truck	k team production	on: 762.	.68	LCY/Hour
						r team production		.68	LCY/Hour
				Adjusted multip	le truck/loade	r team production	on: 762.	.68	LCY/Hour
	JOB TI	ME AN	D COST						
	Fleet	size:	1	Team(s)	]	Total job time:	63.40	6	Hours
	Unit	cost:	\$2.597	/LCY	r	Fotal job cost:	\$125,6	93	-

### BULLDOZER WORK

Task description: Regr	ade Cut Material Over	6.93 ROM Coal Area		
Peabody Sage Creek Mine	Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: 010	State: Colorado		Abbreviation:	None
Date: $2/14/2023$	County: Routt		Filename:	010
User: $HR1$	County. Kout		T fieldifie.	010
Agency or organization	name: DRMS			
HOURLY EQUIPMENT CO	DST			
Basic Machine: Cat D8T - 8				
Horsepower: 310				
Blade Type: Semi-Unive	ersal			
Attachment: 3-shank rip	per			
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:				
	<b>*12107</b>	<u>Utilization %</u>		
Ownership Cost/Hour:	\$124.85	NA		
Operating Cost/Hour:	\$97.63	100		
Ripper own. Cost/Hour:	\$13.10	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
	00			
Total unit Cost/Hour: \$276.				
Total Fleet Cost/Hour: \$276.	00			
MATERIAL QUANTITIES				
Initial Volume: 16,770				
Swell factor: 1.125				
Loose volume: 18,866 LCY				
Loose volume. <b>13,800</b> LC I				
Source of estimated volume:	Division of Reclamation	on, Mining & Safety		
Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
A	100 fr - t			
Average push distance:	100 feet			
Unadjusted hourly production:	852.6 LCY/hr			
Materials consistency description	:Partly consolidated s	stockpile 1.1		
Average puch gradient: 0.0/				
Average push gradient: $0\%$	fact			
Average site altitude: <u>6,800</u>	teet			
Material weight: 2,650	lbs/LCY			
	105/ LC 1		_	
	mposed rock - 25% Rock,	75% Earth		
Job Condition Correction Factor		Source		
Operator Skill:	0.750	(AVG.)		
Material consistency:	1.100	(CAT HB)		
Dozing method:	1.000	(GEN.)		
Visibility:	1.000	(AVG.)		

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4755	
Adjusted unit production:	405.41 LCY/hr	
Adjusted fleet production:	405.41 LCY/hr	
-		

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.683/LCY

Total job time:	46.54 Hours
Total job cost:	\$12,885

### BULLDOZER WORK

Fask description:				covered Storage Pad		
Peabody Sage Cr	eek Mine	Per	mit Action:	MT3	Permit/Job#:	C2009087
<u>PROJECT IDEN</u>	TIFICATIO	<u>DN</u>				
Task #: 011		State:	Colorado		Abbreviation:	None
Date: $\frac{011}{2/14/20}$	023	County:	Routt	· · · · · · · · · · · · · · · · · · ·	Filename:	011
User: HR1		j.				
Agency or	organization 1	name: DF	RMS			
HOURLY EQUI	PMENT CO	ST				
Basic Machine:	Cat D8T - 8	SU				
Horsepower:	310					
Blade Type:	Semi-Unive					
Attachment:	3-shank ripp	ber				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Ho	our:		\$124.85	NA		
Operating Cost/Ho			\$97.63	100		
Ripper own. Cost/Ho	-		\$13.10	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	<b>1117</b>		\$41.30	NA		
Total unit Cost/Hour Total Fleet Cost/Hour	:: \$276.8 ir: <b>\$276.8</b>		\$ 11.00			
Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	:: \$276.8 Ir: \$276.8 \$276.8 ANTITIES 2,500 1.125					
Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	:: \$276.8 ur: <b>\$276.8</b> <b>ANTITIES</b> 2,500					
Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	:: \$276.8 ur: \$276.8 <b>ANTITIES</b> 2,500 1.125 <b>2,813</b> LCY	8				
Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	:: \$276.8 ur: \$276.8 \$276.8 \$276.8 \$276.8 \$2,500 1.125 2,500 1.125 2,813 LCY volume:	8	 of Reclamati	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated	:: \$276.8 ur: \$276.8 \$276.8 \$276.8 \$276.8 \$2,500 1.125 2,500 1.125 2,813 LCY volume:	B 	 of Reclamati			
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s	\$276.8         \$276.8         \$276.8         \$276.8         \$276.8         \$2,500         1.125         2,813 LCY         volume:         swell factor:	B 	 of Reclamati			
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated structures HOURLY PROD	:: \$276.8 ar: \$276.8 <b>ANTITIES</b> 2,500 1.125 <b>2,813</b> LCY volume: swell factor: <b>UCTION</b>	B Division Cat Hand	 of Reclamati			
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated stand HOURLY PROD	:: \$276.8 ar: \$276.8 <b>ANTITIES</b> 2,500 1.125 <b>2,813</b> LCY volume: swell factor: UCTION ce:	B Division Cat Hand	of Reclamati			
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated structures HOURLY PROD	:: \$276.8 ar: \$276.8 <b>ANTITIES</b> 2,500 1.125 <b>2,813</b> LCY volume: swell factor: UCTION ce:	B Division Cat Hand	of Reclamati			
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated stand HOURLY PROD	\$276.8         \$2,500         1.125         \$2,813 LCY         volume:         swell factor:         UCTION         ce:         roduction:         roduction:	Division           Cat Hand           100 feet           852.6 LCY/	of Reclamati	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated s HOURLY PROD Average push distand Jnadjusted hourly pu	::       \$276.8         ur:       \$276.8         \$276.8       \$276.8         ANTITIES       \$2,500         1.125       2,813 LCY         volume:       swell factor:         UCTION	Division           Cat Hand           100 feet           852.6 LCY/	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated s HOURLY PROD Average push distance Jnadjusted hourly pro- Materials consistence	::       \$276.8         ur:       \$276.8         \$276.8       \$276.8         ANTITIES       \$2,500         1.125       2,813 LCY         volume:       swell factor:         UCTION	B Division Cat Hand 100 feet 852.6 LCY/ Partly o	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated s HOURLY PROD Average push distand Jnadjusted hourly pu	::       \$276.8         ur:       \$276.8         \$276.8       \$276.8         ANTITIES       \$2,500         1.125       2,813 LCY         volume:       swell factor:         UCTION	B Division Cat Hand 100 feet 852.6 LCY/ Partly o	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated s HOURLY PROD Average push distance Jnadjusted hourly pro- Materials consistence	:: $$276.8$ antifies $$2,500$ 1.125 $$2,813$ LCY         volume:       swell factor:         wolume:       swell factor:         uction:          roduction:          y description:          nt: $0$ %         :	B Division Cat Hand 100 feet 852.6 LCY/ Partly o	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated source of estimated source of Source of estimated source of estimated source of Average push distance Materials consistence Average push gradie Average push gradie	:: $$276.8$ antifies $$2,500$ 1.125 $$2,813$ LCY         volume:       swell factor:         wolume:       well factor:         uction:          roduction:          y description:          nt:       0 %         :           2,650	B Division Cat Hand 100 feet 852.6 LCY/ Partly c feet lbs/LCY	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s Gource of estimated s FOURLY PROD Average push distance Materials consistence Average push gradie Average site altitude Material weight:	:: $$276.8$ antifies $$2,500$ 1.125 $$2,813$ LCY         volume:       swell factor:         uction:          roduction:          y description:          nt:       0 % $2,650$ Decon	B Division Cat Hand 100 feet 852.6 LCY/ Partly c feet lbs/LCY	 of Reclamati lbook /hr consolidated	on, Mining & Safety		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s Gource of estimated s Cource of estimated s Source of estimated s Cource of estimated s Source of estimated s Cource of estimated s Source of estimated s Source of estimated s Source of estimated s Cource of estimated s Source of estimated s Cource of estimated s Source of estimated s Cource of estimated s Source of est	\$276.8         antifies $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$2,500$ $$1.125$ $$2,813 LCY$ volume:         swell factor:         UCTION         ce:         roduction: $$2,650$ Decon         ction Factor         ator Skill:	B Division Cat Hand 100 feet 852.6 LCY/ Partly c feet lbs/LCY nposed rock		on, Mining & Safety 		
Fotal unit Cost/Hour Fotal Fleet Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated Sour	\$276.8         \$2,500         1.125         \$2,813 LCY         volume:         swell factor:         UCTION         cc:         roduction:         \$2,650         \$2,650         \$2,650         \$2,650         \$2,650         \$2,650         \$2,650         \$2,650	B Division Cat Hand 100 feet 852.6 LCY/ Partly c feet lbs/LCY posed rock 0. 1.		on, Mining & Safety 	)	
Fotal unit Cost/Hour Fotal Fleet Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated Sour	\$276.8         antifies $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$276.8$ $$2,500$ $$1.125$ $$2,813 LCY$ volume:         swell factor:         UCTION         ce:         roduction: $$2,650$ $$2,650$ Decon         ction Factor         ator Skill:	B Division Cat Hand 100 feet 852.6 LCY/ Partly c feet lbs/LCY posed rock 0. 1.		on, Mining & Safety 	)	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:		
Adjusted unit production: 40	5.41 LCY/hr	
Adjusted fleet production: 40	5.41 LCY/hr	

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.683/LCY

Total job time:	<b>6.94</b> Hours
Total job cost:	\$1,921

### BULLDOZER WORK

Task description: Regr				
Peabody Sage Creek Mine	Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTIFICATIO	<u>DN</u>			
Task #:     012       Date:     2/14/2023       User:     HR1	State: <u>Colorado</u> County: <u>Routt</u>		Abbreviation: Filename:	None 012
Agency or organization	name: DRMS			
HOURLY EQUIPMENT CO	<u>DST</u>			
Basic Machine: Cat D8T - 8	SU	_		
Horsepower: 310 Blade Type: Semi-Unive		_		
Blade Type: <u>Semi-Unive</u> Attachment: <u>Semi-Unive</u>		_		
Shift Basis: 1 per day	Jei	_		
Data Source: (CRG)		_		
		_		
Cost Breakdown:	I			
Ownership Cost/Hours	\$124.85	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$124.85	<u>NA</u> 100		
Ripper own. Cost/Hour:	\$97.63	NA		
Ripper op. Cost/Hour:	\$13.10	100		
· · · ·	\$41.30			
Operator Cost/Hour: Total unit Cost/Hour: \$284.1 Total Fleet Cost/Hour: \$284.1 MATERIAL QUANTITIES	18	NA		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388	18	NA		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES	18	NA		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250	18			
Fotal unit Cost/Hour:\$284.1Fotal Fleet Cost/Hour:\$284.1 <b>MATERIAL QUANTITIES</b> Initial Volume:3,388Swell factor:1.250Loose volume: <b>4,235</b> LCY	18 18			
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Swell factor:	18 18 			
Fotal unit Cost/Hour:       \$284.1         Total Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION	18 18 Division of Reclamatic Cat Handbook			
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Swell factor:	18 18 			
Fotal unit Cost/Hour:       \$284.1         Total Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:	18 18 Division of Reclamatic Cat Handbook 50 feet 1,400.0 LCY/hr	 on, Mining & Safety 		
Fotal unit Cost/Hour:       \$284.1         Total Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:          Materials consistency description:          Average push gradient:          O %	18 18 18 Division of Reclamatic Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or en	 on, Mining & Safety 		
Fotal unit Cost/Hour:       \$284.1         Total Fleet Cost/Hour:       \$284.1         WATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Jnadjusted hourly production:         Materials consistency description:         Average push gradient:       0 %         Average site altitude:       6,800	18 18 18 Division of Reclamatic Cat Handbook 50 feet 1,400.0 LCY/hr Compacted fill or en	 on, Mining & Safety 		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Jnadjusted hourly production:         Materials consistency description:         Average site altitude:       0 %         Average site altitude:       2,650	18         18         18         18         Division of Reclamatic         Cat Handbook         50 feet         1,400.0 LCY/hr         Compacted fill or en         feet         feet	on, Mining & Safety		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         WATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Jnadjusted hourly production:         Average push gradient:       0 %         Average site altitude:       6,800         Material weight:       2,650         Weight description:       Decor	18         18         18         18         Division of Reclamatic         Cat Handbook         50 feet         1,400.0 LCY/hr         Compacted fill or en         feet         lbs/LCY	on, Mining & Safety 		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:	18         18         18         18         Division of Reclamatic         Cat Handbook         50 feet         1,400.0 LCY/hr         Compacted fill or en         feet         lbs/LCY         nposed rock - 25% Rock,	on, Mining & Safety		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:	18         18         18         18         Division of Reclamatic         Cat Handbook         50 feet         1,400.0 LCY/hr         Compacted fill or en         feet         lbs/LCY	on, Mining & Safety 		
Fotal unit Cost/Hour:       \$284.1         Fotal Fleet Cost/Hour:       \$284.1         MATERIAL QUANTITIES         Initial Volume:       3,388         Swell factor:       1.250         Loose volume:       4,235 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:	18         18         18         18         Division of Reclamatic         Cat Handbook         50 feet         1,400.0 LCY/hr         Compacted fill or en         feet         lbs/LCY         nposed rock - 25% Rock,         0.750	on, Mining & Safety		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3890	
Adjusted unit production:	544.60 LCY/hr	
Adjusted fleet production:	544.6 LCY/hr	

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.522/LCY

Total job time:	<b>7.78</b> Hours
Total job cost:	\$2,210

Page 1 of 2

### BULLDOZER WORK

Peabody Sage Creek Mine	Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTIFICAT	ΓΙΟΝ			
Task #: 013	State: Colorado		Abbreviation:	None
Date: $2/14/2023$	County: Routt		Filename:	013
User: HR1	County		T nename.	015
Agency or organization	on name: DRMS			
	COST			
HOURLY EQUIPMENT ( Basic Machine: Cat D8T				
Horsepower: 310	- 050			
Blade Type: Semi-Un	niversal			
Attachment: 3-shank				
Shift Basis: 1 per day	y			
Data Source: (CRG)				
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$124.85	NA		
Operating Cost/Hour:	\$97.63	100		
Ripper own. Cost/Hour:	\$13.10	NA		
Ripper op. Cost/Hour:	\$7.30	100		
Operator Cost/Hour:	\$41.30	NA		
Initial Volume: 847 Swell factor: 1.250				
Loose volume: 1,059 LC	Y			
1,007 LC				
Source of estimated volume:	Division of Reclamation	on, Mining & Safety		
	Division of Reclamation Division of Reclamation	on, Mining & Safety		
Source of estimated volume: Source of estimated swell facto	or: Cat Handbook	on, Mining & Safety		
Source of estimated volume:	or: Cat Handbook	on, Mining & Safety		
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance:	Dr: Cat Handbook	on, Mining & Safety		
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION	Dr: Cat Handbook	on, Mining & Safety		
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance:	Cat Handbook <u>50 feet</u> 1,400.0 LCY/hr			
Source of estimated volume: Source of estimated swell facto HOURLY PRODUCTION Average push distance: Jnadjusted hourly production: Materials consistency descripti	or: Cat Handbook 50 feet 1,400.0 LCY/hr ion: Compacted fill or er			
Source of estimated volume: Source of estimated swell facto HOURLY PRODUCTION Average push distance: Jnadjusted hourly production: Materials consistency descripti Average push gradient:0 %	or: Cat Handbook 50 feet 1,400.0 LCY/hr ion: Compacted fill or er			
Source of estimated volume: Source of estimated swell facto HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average site altitude: 6,8	or: Cat Handbook           Solution         Solu			
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average site altitude: 6,8 Material weight: 2,6	or: Cat Handbook <u>50 feet</u> <u>1,400.0 LCY/hr</u> ion: Compacted fill or en <u>6</u> <u>600 feet</u>	mbankment 0.9		
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average site altitude: 6,8 Material weight: 2,6 Weight description: Descri	or: Cat Handbook			
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Jnadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average site altitude: 6,8 Material weight: 2,6 Weight description: Dea Source of estimated to the second Material weight: 2,6 Weight description: Dealert	Cat Handbook         50 feet         1,400.0 LCY/hr         ion:       Compacted fill or er         6         600 feet         550 lbs/LCY         composed rock - 25% Rock,         00         0.750			
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Jnadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average push gradient: 0 % Average site altitude: 6,8 Material weight: 2,6 Weight description: Dea Source of estimates and the second Operator Skill: Material consistency:	Cat Handbook         50 feet         1,400.0 LCY/hr         ion:       Compacted fill or er         6         000 feet         550 lbs/LCY         composed rock - 25% Rock,         or         0.750         0.900			
Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Jnadjusted hourly production: Materials consistency descripti Average push gradient: 0 % Average site altitude: 6,8 Material weight: 2,6 Weight description: Dea Source of estimated to the second Material weight: 2,6 Weight description: Dealert	$\frac{Cat Handbook}{S}$ $\frac{50 \text{ feet}}{1,400.0 \text{ LCY/hr}}$ ion: Compacted fill or end $\frac{6}{300 \text{ feet}}$ $\frac{50 \text{ lbs/LCY}}{550 \text{ lbs/LCY}}$ $\frac{0.750}{0.900}$ $\frac{0.750}{1.000}$			

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pi	e: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigl	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.3890	
Adjusted unit production:	544.60 LCY/hr	
Adjusted fleet production:	544.6 LCY/hr	

### JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.522/LCY

Total job time:	1.94 Hours
Total job cost:	\$552

Task description:   Remove Gravel from North Facilities Parking Area								
Site: Peabody Sage Cr	Site: Peabody Sage Creek Mine Permit Action:					Permit/Job#: <u>C2</u>	2009087	
<b>PROJECT IDEN</b>	TIFICATION							
Task #:     020       Date:     2/14/2       User:     HR1		State: C County: F	<u>Colora</u> Routt S	ado	Ab	breviation: <u>No</u> Filename: <u>020</u>		
HOURLY EQUI	-				Shift bas	is: <u>1 per day</u>		
		_		Equipment Descri	ption			
Т	ruck Loader Tea	m -Truck:	Cat	770D	r · ·			
		-Loader:		Т 988Н				
Suppo	ort Equipment -L	oad Area: imp Area:	NA NA					
Road Ma	aintenance – Mot			T 14M				
	-Wa	ter Truck:	Wa	ter Tanker, 10,000	) Gal.			
	<b>T</b> 1/4	1		G (1)				
<u>Cost Breakdown</u> :	Truck/Loa	ader Team Loader		Load Area	Equipment Dump Area	Maintenan Motor Grader	ce Equipment Water Truck	
%Utilization-machine:		Louder	05		-			
	100 \$79.42	¢02	95 3.69	NA NA	NA NA	25 \$114.80	25 \$01.72	
Ownership cost/hour: Operating cost/hour:	\$79.42		).94	NA	NA	\$114.80	\$91.73 \$32.57	
%Utilization-riper:	\$70.82 NA	φθί	0	NA	NA	NA	\$32.57 NA	
Ripper own. cost/hour:	NA	\$(	0.00	NA	NA	\$0.00	\$0.00	
Ripper op. cost/hour:	NA		0.00	NA	NA	\$0.00	\$0.00	
Operator cost/hour:	\$32.98	\$40	).71	NA	NA	\$28.56	\$21.12	
Unit Subtotals:	\$183.22	\$215	5.34	NA	NA	\$163.20	\$145.42	
Number of Units:	6		1	0	0	1	1	
Group Subtotals:	Work:	\$1,314.66		Support:	\$0.00	Maint:	\$308.62	
Total work team cos	t/hour: <u>\$1,623.2</u>	28						
MATERIAL QUA	ANTITIES							
Initial volume:	4,195		CCY		factor: <u>1.090</u>			
Loose volume:	4,57.		LCY		n Mining & Sof			
	of estimated swe			sion of Reclamatic Handbook	on, winning & Sare	ety		
	Material Purch		\$0.00	0				
	То	otal Cost:	\$0.00	)				
HOURLY PRO	<b>DUCTION</b>							
Truck Capacity:								
Truck Payload (weig				<b>D</b>				
Material w Descri		nd gravel - D	)ry	Pounds/LCY				
Rated Pa		-	<i>y y</i>	Pounds				
Payload Cap				LCY				

		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	31.70	LCY				
Final '	Truck Volume	Based on Number of	of Loader Passes:	30.36	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: N	IA	
Rated Capacity:	9.200	LCY (heaped)				
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	0-120%) 1.100		_
Adjusted Capacity:	10.120	LCY		,		_
Job Condition Corrections:	_	S	Site Altitude (ft.):	<u>6800</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
					2	
Loading Tool Cycle Time:		of Loading Tool Pa	asses Required to	Fill Truck:	<u>    3         </u> I	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs	Iob Condition	Rating: NA				
Selected Value w	vithin this Basic	Rating: NA				
Selected Value w Track Loaders – I	vithin this Basic	Rating: NA				
Selected Value w Track Loaders – I Cycle Time Elements (min.):	vithin this Basic Material Descri	c Rating: NA ption:				
Selected Value w Track Loaders – I	vithin this Basic Material Descri	Rating: NA		 Dump:0.100	0	
Selected Value w Track Loaders – I Cycle Time Elements (min.):	vithin this Basic Material Descri Ma	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>	ime (load, dump, r		) ).575 minu	Ites
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basic Material Descri Ma	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>	ime (load, dump, r	maneuver):0		ites
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basic Material Descri Ma  Unadjusted Bas	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>			0.575 minu	ites
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basic Material Descri  Unadjusted Bas  Material 1/8"	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti	.02	maneuver):0 Factor (min.)	0.575 minu Source	ites
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basic Material Descri – Ma – Unadjusted Bas <u>Material 1/8"</u> Conveyor or d Common own	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig tership of trucks and	.02 gh and up 0.00	maneuver):0 Factor (min.) -0.020 0.000 -0.040	0.575 minu Source (Cat HB) (Cat HB) (Cat HB)	ites  
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper	c Rating: NA ption:	.02 gh and up 0.00	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basic Material Descri – Ma – Unadjusted Bas <u>Material 1/8"</u> Conveyor or d Common own	c Rating: NA ption:	.02 gh and up 0.00 d loaders -0.04	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper	c Rating: NA ption:	.02 gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 ct 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutes	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 ct 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	Ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 ct 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutes	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basic Material Descri Ma Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 ct 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutes	
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vithin this Basic Material Descri Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 ct 0.00 Net Cycle Tin Adjusted Load Net Load T	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050	0.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes       minutes     minutes	    
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basic Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper Nominal targe 0.60 1.050	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig tership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	Ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basic Material Descri Unadjusted Bas Material 1/8" Conveyor or d Common own Constant oper Nominal targe 0.60 1.050 1.00	e Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig tership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.050 1.000	     Minute

	Haul Rou	te:							
ſ	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time	
	1	1056	00	0.00	1.20	1.20	4223	(min) 3.212	
L	1	1050	5.00	0.00	1.20	1	4223	5.212	
						Haul Time:	3.212	minutes	
F	Return Ro			T	I	1			
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1056	0.00	0.00	1.20	1.20	4254	2.754	
						Return Time:	2.754	minute	S
					Total True	ck Cycle Time:	8.616	minute	S
T	oading Too	l unit							
Ľ	Produ		1,104.00	LCY/Hour		Adjusted for j	ob efficiency:	916.32	LCY/Hour
Truck	Unit Produ	iction	,			. j	j		
			211.42	LCY/Hour		Adjusted for j	ob efficiency:	175.48	LCY/Hour
Optima	al No. of Tr	ucks:	5	Truck(s)		Selected Num	ber of Trucks:	6	Truck(s)
				Adiuste	ed hourly true	k team production	on: 1,052	2.87 LCY	/Hour
						r team production			/Hour
				Adjusted multip				.32 LCY	//Hour
						-			
	JOB TI	ME AN	ND COST						
	Fleet	size:	1	Team(s)	Т	Total job time:	4.99	He	ours
	Unit	cost:	\$1.772	/LCY	<b>-</b>	Fotal job cost:	\$8,10	0	

### Page 1 of 3

Task description:	Remove	Gravel from M	ain North Faciliti	ies Area		
Site: Peabody Sage Cr	reek Mine	Permit Acti	ion: <u>MT3</u>		Permit/Job#: <u>C</u> 2	2009087
PROJECT IDEN	TIFICATION					
Task #: 021		State: Color	ado	Ab	breviation: No	ne
Date: 2/14/2	.023	County: Routt	-		Filename: 021	L
User: HR1						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri	ption		
Т	ruck Loader Tea		t 770D AT 988H			
Suppo	ort Equipment -L					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Imp Area: NA	1			
Road Ma	aintenance – Mot		AT 14M			
	-Wa	ter Truck: Wa	ater Tanker, 10,000	) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$79.42	\$93.69	NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$70.82	\$80.94	NA	NA	\$19.85	\$32.57
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$32.98	\$40.71	NA	NA	\$28.56	\$21.12
Unit Subtotals:	\$183.22	\$215.34	NA	NA	\$163.20	\$145.42
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,314.66	Support:	\$0.00	Maint:	\$308.62
Total work team cos	t/hour: <u>\$1,623.2</u>	28				
MATERIAL QU	ANTITIES					
		CCI	Z G11	fastar: 1,000		
Initial volume: Loose volume:		1 CCY 1 LCY		factor: <u>1.090</u>		
	urce of estimated			n Mining & Sof	at v	
	of estimated swe		sion of Reclamation	$\sin$ , while $\alpha$ sate	ety	
	Material Purcha					
	Тс	otal Cost: \$0.0	0			
HOURLY PRO	<b>DUCTION</b>					
Truck Capacity:						
Truck Payload (weig						
Material w		dames 1 D	Pounds/LCY			
Descri Rated Pa		nd gravel - Dry	Pounds			
Payload Cap			LCY			
	· j · <u> </u>					

0, 1, 1, 1	01 (0					
Struck Volume:		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	31.70	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	30.36	LCY	
Loading Tool Capacity						
Data d Canaaitan	0.200	LCV (harred)		ket Size Class: <u>N</u>	IA	_
Rated Capacity: Bucket Fill Factor:	9.200	LCY (heaped) Other - rock/di		-120%) 1.100		-
Adjusted Capacity:	10.120	LCY	int mixtures (100	-120%) 1.100		-
Job Condition Corrections:			Site Altitude (ft.): 6			
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	,		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	• of Loading Tool Pa	asses Required to	Fill Truck	3 г	basses
Excavators and Front Shovel		of Loading 10011	asses Required to			Jasses
EXCAVATORS and From Shover						
Zieuvators and From Biover	<u></u>					
Machine Cycle Time vs Selected Value w	s. Job Conditior					
Machine Cycle Time vs	s. Job Condition vithin this Basic	c Rating: NA				
Machine Cycle Time vs Selected Value w	s. Job Condition vithin this Basic Material Descri	c Rating: NA				
Machine Cycle Time vs Selected Value w Track Loaders – I	s. Job Conditior vithin this Basic Material Descri	c Rating: NA		 Dump: 0.100	)	
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditior vithin this Basic Material Descri M	c Rating: NA iption:	ime (load. dump. r	·		ites
Machine Cycle Time vs Selected Value w Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Conditior vithin this Basic Material Descri M	c Rating: NA iption:	ime (load, dump, r	naneuver): 0	0.575 minu	ites
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Condition vithin this Basic Material Descri Material Descri Unadjusted Ba	c Rating: NA iption: aneuver: NA sic Loader Cycle Ti		naneuver): 0 Factor (min.)	0.575 minu Source	ites
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8"	c Rating: NA iption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0	0.02	naneuver):0 Factor (min.) -0.020	0.575 minu Source (Cat HB)	utes 
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c	c Rating: NA iption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig	0.02 gh and up 0.00	naneuver): 0 Factor (min.) -0.020 0.000	0.575 minu Source (Cat HB) (Cat HB)	ites 
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	s. Job Condition vithin this Basic Material Descri – Unadjusted Ba – Material 1/8" Conveyor or c Common owr	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig nership of trucks and	0.02 gh and up 0.00	naneuver):0 Factor (min.) -0.020	0.575 minu Source (Cat HB) (Cat HB) (Cat HB)	ites  
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig hership of trucks and ration -0.04	0.02 gh and up 0.00	maneuver): 0 Factor (min.) -0.020 0.000 -0.040	0.575 minu Source (Cat HB) (Cat HB)	ites  
Machine Cycle Time vs Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c Common owr Constant oper	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00	0.02 gh and up 0.00	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes    
Machine Cycle Time vs Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c Common owr Constant oper	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Ti	0.02 gh and up 0.00 d loaders -0.04	maneuver):0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes   
Machine Cycle Time vs Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c Common owr Constant oper	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	0.02 gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	SourceSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutes	utes   
Machine Cycle Time vs Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c Common owr Constant oper	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	0.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	0.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)	ites   
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or o Common owr Constant oper Nominal targe	c Rating: NA iption: faneuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig tership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	0.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	0.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)	
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba Material 1/8" Conveyor or c Common owr Constant oper Nominal targe	c Rating: NA iption: ianeuver: NA sic Loader Cycle Ti to 3/4" diameter -0 dozer piled 10 ft. hig nership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T	0.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050	0.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	s. Job Condition vithin this Basic Material Descri Material Descri Material 1/8" Conveyor or or Common owr Constant oper Nominal targe : 0.60 : 0.60	c Rating: NA iption:	0.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	utes 
Machine Cycle Time vs Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	s. Job Condition vithin this Basid Material Descri M Unadjusted Ba Material 1/8" Conveyor or of Common owr Constant oper Nominal targe : 0.60 : 1.050 : 1.00	c Rating: NA iption:	0.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.050 1.000	    Minute:

Haul Rou	te:							
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	10560	).00	0.00	1.20	1.20	4223	3.212	
			1	L	Haul Time:	3.212	minutes	
Return Ro	oute:					0,212		
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	10560	0.00	0.00	1.20	1.20	4254	2.754	
					Return Time:	2.754	minutes	S
				Total Tru	ck Cycle Time:	8.616	minutes	S
Loading Too	Junit							
U	unit	1,104.00	LCY/Hour		Adjusted for j	ob efficiency:	916.32	LCY/Hour
Truck Unit Produ	uction	,			. ja na s			
	-	211.42	LCY/Hour		Adjusted for j	ob efficiency:	175.48	LCY/Hour
Optimal No. of Tr	rucks:	5	Truck(s)		Selected Num	ber of Trucks:	6	Truck(s)
			Adjuste	ed hourly true	k team production	on: 1,052	2.87 LCY	/Hour
					er team production			/Hour
			Adjusted multip	le truck/loade	er team production	on: 916	.32 LCY	/Hour
JOB TI	ME AN	ID COST						
Fleet	size:	1	Team(s)	]	Fotal job time:	11.5	<b>1</b> Ho	ours
Unit	cost:	\$1.772	/LCY	,	Total job cost:	\$18,6	92	

Task description:	Remove	Gravel from N	orth Facilities Ele	ctrical Shop Are	a	
Site: Peabody Sage Ci	reek Mine	Permit Act	ion: MT3		Permit/Job#: <u>C2</u>	2009087
PROJECT IDEN	TIFICATION	-				
Task #: $022$ Date: $2/14/2$	0022	State: Color		Ab	breviation: Nor Filename: 022	
User: HR1	.025	County: Rout	l		Filename: 022	<u>.</u>
	organization nan	ne: DRMS				
Agency of	organization nan					
HOURLY EQUI	PMENT COST	<u> </u>		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri	ption		
Т	ruck Loader Tea		t 770D	•		
Supp	ort Equipment -L		AT 988H			
Supp		imp Area: NA				
Road Ma	aintenance – Mote		AT 14M			
	-Wa	ter Truck: Wa	ater Tanker, 10,000	) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$79.42	\$93.69	NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$70.82	\$80.94	NA	NA	\$19.85	\$32.57
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$32.98	\$40.71	NA	NA	\$28.56	\$21.12
Unit Subtotals:	\$183.22	\$215.34	NA	NA	\$163.20	\$145.42
Number of Units:	6 Work:	<u>\$1,214,66</u>	0 Support:	0 \$0.00	1 Maint:	\$308.62
Group Subtotals:		\$1,314.66	Support:	\$0.00	Maint:	\$308.02
Total work team cos	st/hour: <u>\$1,623.2</u>	28				
MATERIAL QU	ANTITIFS					
			V 0 11	6 / 1 000		
Initial volume: Loose volume:		CC CC LC		factor: <u>1.090</u>		
	urce of estimated			n Mining & Sofe		
	of estimated swe		ision of Reclamatic Handbook	on, winning & Sale	ery	
	Material Purcha					
	Тс	otal Cost: \$0.0	00			
HOURLY PRO	ΠΙζΤΙΛΝ					
	DUCTION					
<u>Truck Capacity:</u> Truck Payload (weig	tht) Basic					
Material w			Pounds/LCY			
Descri	iption: Clay ar	nd gravel - Dry				
Rated Pa			Pounds LCY			
Payload Cap	bacity: <u>34.17</u>					

Struck Volume:	21.60	LCY				
Heaped Volume:	31.70	LCY				
Average Volume:	26.65	LCY				
Adjusted Volume:	31.70	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes	30.36	LCY	
Loading Tool Capacity	Truck Volume		n Louder 1 usses.			
<u>Louding roor cupatity</u>			Buc	ket Size Class: N	A	
Rated Capacity:	9.200	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/di		-120%) 1.100		-
Adjusted Capacity:	10.120	LCY	(100	12070) 11100		-
Job Condition Corrections:		S	Site Altitude (ft.):	6800 feet		
	- Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE			
Job Enterency.	0.050	0.050		~/		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Numbe	r of Loading Tool Pa	asses Required to	Fill Truck:	3 р	asses
Excavators and Front Shovel		6	1		I	
		D . C NIA				
Machine Cycle Time vs Selected Value v						
•	within this Basi	ic Rating: NA				
Selected Value v	vithin this Basi Material Descr	ic Rating: NA				
Selected Value v Track Loaders –	vithin this Basi Material Descr	ic Rating: NA		 Dump: 0.100	)	
Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr 	ic Rating: NA iption: Ianeuver: NA		·		
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basi Material Descr 	ic Rating: NA iption: Ianeuver: NA	ime (load, dump, 1	naneuver):0	.575 minu	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basi Material Descr  Unadjusted Ba	ic Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti	· · · ·	naneuver): 0 Factor (min.)	.575 minu Source	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	vithin this Basi Material Descr N Unadjusted Ba  Material 1/8'	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0	.02	naneuver): 0 Factor (min.) -0.020	.575 minu Source (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig	.02 gh and up 0.00	naneuver): 0 Factor (min.) -0.020 0.000	.575 minu Source (Cat HB) (Cat HB)	ites  
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basi Material Descr – M Unadjusted Ba Material 1/8' Conveyor or Common ow	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and	.02 gh and up 0.00	maneuver): 0 Factor (min.) -0.020 0.000 -0.040	.575 minu Source (Cat HB) (Cat HB) (Cat HB)	ites  
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04	.02 gh and up 0.00	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites 
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basi Material Descr – M Unadjusted Ba Material 1/8' Conveyor or Common ow	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00	.02 gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites    
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and varition -0.04 yet 0.00 Net Cycle Ti	.02 gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	Ites    
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load	.02 gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites  
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites   
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Ti Adjusted Load Net Load T	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basi Material Descr M Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basi Material Descr Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA iption:	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600 1.050	    Minute
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basi Material Descr Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 3/4'' diameter -0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA iption:	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.050 1.000	     Minute

Haul Rout			1		1			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	10560.	.00	0.00	1.20	1.20	4223	3.212	
					Haul Time:	3.212	minutes	
Return Ro				1				
Seg #	Haul D	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	10560.	.00	0.00	1.20	1.20	4254	2.754	
					Return Time:	2.754	minute	es
				Total True	ck Cycle Time:	8.616	minute	es
Loading Too	l unit							
Produ		1,104.00	LCY/Hour		Adjusted for j	ob efficiency:	916.32	LCY/Hour
Truck Unit Produ	ction					-		
	_	211.42	LCY/Hour		Adjusted for j	ob efficiency:	175.48	LCY/Hour
Optimal No. of Tr	ucks:	5	Truck(s)		Selected Num	ber of Trucks:	6	Truck(s)
			Adjuste	ed hourly truc	k team production	on: 1,052	2.87 LCY	/Hour
					r team production			//Hour
			Adjusted multip	le truck/loade	er team production	on: <b>916</b>	.32 LCY	//Hour
<u>JOB TIN</u>	ME AN	D COST						
Fleet	size:	1	Team(s)	7	Fotal job time:	3.07	He He	ours
Unit c	cost:	\$1.772	/LCY	•	Total job cost:	\$4,98	34	

Task description:	Remove	Gravel from	North Office Parki	ng Area		
Site: Peabody Sage C	reek Mine	Permit A	ction: MT3		Permit/Job#: <u>C2</u>	2009087
PROJECT IDEN	TIFICATION					
Task #: $023$ Date: $2/14/2$	2023	State: <u>Col</u> County: Rou	orado 1tt	Ab	breviation: Nor Filename: 023	
User: HR1						·
Agency or	organization nan	ne: DRMS				
	-			Shift has	ici 1 man dayi	
HOURLY EQUI	FMENT COST	<u>L</u>			sis: <u>1 per day</u>	
т	ruck Loader Tea	m -Truck C	Equipment Descri Cat 770D	ption		
1	Tuek Louder Tea		CAT 988H			
Supp	ort Equipment -L		NA			
Pood M	Du- aintenance –Mote		VA CAT 14M			
Koau Wi			Vater Tanker, 10,000	) Gal.		
		L				
Cost Breakdown:	Truck/Loa			Equipment	1	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	9:	5 NA	NA	25	25
Ownership cost/hour:	\$79.42	\$93.6	9 NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$70.82	\$80.94		NA	\$19.85	\$32.57
%Utilization-riper:	NA		0 NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.0		NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.0		NA	\$0.00	\$0.00
Operator cost/hour:	\$32.98	\$40.7		NA	\$28.56	\$21.12
Unit Subtotals: Number of Units:	\$183.22	\$215.34		NA	\$163.20	\$145.42
Group Subtotals:	6 Work:	\$1,314.66		0 \$0.00	1 Maint:	\$308.62
Group Subiotais.	WOIK.	\$1,314.00	Support:	\$0.00	Wianit.	\$308.02
Total work team cos	st/hour: <u>\$1,623.2</u>	28				
MATERIAL QU	ANTITIES					
		~				
Initial volume: Loose volume:	-		CY Swell CY	factor: <u>1.090</u>		
	urce of estimated of estimated swe		vision of Reclamation at Handbook	on, Mining & Safe	ety	
Source	Material Purcha		0.00			
	Тс		0.00			
HOURLY PRO	DUCTION					
Truck Capacity:	1.0.5.					
Truck Payload (wei) Material v			Pounds/LCY			
		nd gravel - Dry				
Rated Pa	yload: 82,000		Pounds			
Payload Ca	bacity: 34.17		LCY			

Struck Volume:		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	31.70 I	LCY				
Final '	Truck Volume l	Based on Number of	of Loader Passes:	30.36	LCY	
Loading Tool Capacity						
Deta 1 Canada	0.200			ket Size Class: <u>N</u>	IA	_
Rated Capacity:	9.200	LCY (heaped)		1200() 1 100		-
Bucket Fill Factor:	1.100 <b>10.120</b>	Other - rock/di	irt mixtures (100	-120%) 1.100		-
Job Condition Corrections:			Site Altitude (ft.): 6			
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	/		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool P	asses Required to 1	Fill Truck:	3 t	basses
Excavators and Front Shovel		or 2000ing 10011			F	
Encurators and From Shover	5.					
Machine Cycle Time vs Selected Value w						
•	vithin this Basic	Rating: NA				
Selected Value w	vithin this Basic	Rating: NA				
Selected Value w Track Loaders – I	vithin this Basic Material Descrij	Rating: NA		 Dump:0.100	)	
Selected Value w Track Loaders – I Cycle Time Elements (min.):	vithin this Basic Material Descrij Ma	Rating: NA ption:	ime (load, dump, r	I	) . <u>.575                                  </u>	ıtes
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basic Material Descrij Ma	Rating: NA ption:	ime (load, dump, r	I		ıtes
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basic Material Descrip  Unadjusted Bas	Rating: NA ption:	· · ·	naneuver):0	.575 min	utes
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basic Material Descrip  Unadjusted Bas Material 1/8" 1	Rating: NA ption: aneuver: NA sic Loader Cycle Ti	.02	naneuver):0 Factor (min.)	0.575 minu Source	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basic Material Descrip – Ma – Unadjusted Bas <u>Material 1/8" 1</u> Conveyor or d Common own	Rating: NA ption:	.02 gh and up 0.00	naneuver):0 Factor (min.) -0.020	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)	utes 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" Conveyor or d Common own Constant opera	Rating: NA ption:	.02 gh and up 0.00	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basic Material Descrip – Ma – Unadjusted Bas <u>Material 1/8" 1</u> Conveyor or d Common own	Rating: NA ption:	.02 gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" Conveyor or d Common own Constant opera	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	.02 gh and up 0.00 d loaders -0.04 me Adjustment:	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" Conveyor or d Common own Constant opera	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)	utes    
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" Conveyor or d Common own Constant opera	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment:	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" Conveyor or d Common own Constant opera	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basic Material Descrip Ma Unadjusted Bas Unadjusted Bas 	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	.575     minutes       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)	
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" 1 Conveyor or d Common own Constant opera Nominal targe 0.60 1.050	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600 1.050	     Minute: 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basic Material Descrip Unadjusted Bas Material 1/8" 1 Conveyor or d Common own Constant opera Nominal targe 0.60 1.050	Rating: NA ption:	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude:	0.575 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	Ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basic Material Descrip Ma Unadjusted Bas Material 1/8" 1 Conveyor or d Common own Constant opera Nominal targe 0.60 060 1.050 1.00	Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 3/4" diameter -0. lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	.02 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	naneuver): 0 Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 for site altitude: for site altitude:	0.575     minutes       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       0.600     1.050       1.000     1.000	    Minute:

Haul Route:

	Seg #		Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	1056	0.00	0.00	1.20	1.20	4223	3.212	
	Return Re	oute:				Haul Time:	3.212	minutes	
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1056	0.00	0.00	1.20	1.20	4254	2.754	
					Total Truc	Return Time: k Cycle Time:	2.754 8.616	minute minute	
	oading Too Produ Unit Produ	uction	1,104.00	LCY/Hour		Adjusted for j	ob efficiency:	916.32	LCY/Hour
			211.42	LCY/Hour		Adjusted for j	ob efficiency:	175.48	LCY/Hour
Optima	al No. of T	rucks:	5	Truck(s)		Selected Num	ber of Trucks:	6	Truck(s)
						team production			/Hour
				Adjusted sing Adjusted multip		r team production r team production			//Hour //Hour
				najusteu munip			JI0		11001
	JOB TI	ME AI	ND COST						
	Fleet	size:	1	Team(s)	Т	otal job time:	0.58	He He	ours
	Unit	cost: _	\$1.772	/LCY	Т	Total job cost:	\$935	5	

Task description:	Remove	Gravel from	m So	uth Powder Mag	azine Pad		
Site: Peabody Sage C	reek Mine	Permit	Actio	on: MT3		Permit/Job#: <u>C2</u>	2009087
PROJECT IDEN	TIFICATION						
Task #: 024		State: C	Colora	ado	Ab	breviation: Nor	
Date: 2/14/2 User: HR1	.023	County: <u>F</u>	Routt			Filename: 024	r
	organization nan	ne: DRM	2				
Agency of	organization nan		5				
HOURLY EQUI	PMENT COST	<u>[</u>			Shift bas	sis: <u>1 per day</u>	
		<b>—</b> 1		Equipment Descri	ption		
1	ruck Loader Tea	m -Truck: -Loader:		770D T 988H			
Supp	ort Equipment -L		NA				
		ump Area:	NA				
Road Ma	aintenance – Mote	or Grader: ter Truck:		T 14M ter Tanker, 10,000	Cal		
	- vv a	lef Truck.	vv al	ter Taliker, 10,000	/ Gal.		
Cost Breakdown:	Truck/Loa	ader Team		Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		95	NA	NA	25	25
Ownership cost/hour:	\$79.42	\$93	6.69	NA	NA	\$114.80	\$91.73
Operating cost/hour:	\$70.82	\$80	).94	NA	NA	\$19.85	\$32.57
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA		0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA		0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$32.98	\$40		NA	NA	\$28.56	\$21.12
Unit Subtotals: Number of Units:	\$183.22	\$215		NA 0	NA	\$163.20	\$145.42
Group Subtotals:	o Work:	\$1,314.66	1		0 \$0.00	I Maint:	\$308.62
				Support:	\$0.00	Wianit.	\$308.02
Total work team cos	st/hour: <u>\$1,623.2</u>	28					
MATERIAL QU	ANTITIFS						
Initial volume: Loose volume:			CCY LCY		factor: <u>1.090</u>		
						- 4	
	urce of estimated of estimated swe			sion of Reclamatic Handbook	on, Mining & Sale	ety	
	Material Purcha		\$0.00				
	Тс	otal Cost:	\$0.00	)			
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (weig	ght) Basis:						
Material w				Pounds/LCY			
Descri Rated Pa		nd gravel - D	ry	Pounds			
Payload Car				LCY			
i ujiouu Cuj							

Struck Volume:	21.60	LCY						
Heaped Volume:	31.70	LCY						
Average Volume:	26.65	LCY						
Adjusted Volume:	31.70	LCY						
	Truck Volume	Based on Number of	of Loader Passes:	30.36	LCY			
Loading Tool Capacity			Duy	ket Size Class: N	τ <b>Δ</b>			
Data d Cara aitan	0.200	LCV (hanned)			NA	_		
Rated Capacity: Bucket Fill Factor:	9.200	LCY (heaped) Other - rock/di		0-120%) 1.100		_		
Adjusted Capacity:	10.120	LCY	III IIIXtures (10	0-120%) 1.100		-		
Job Condition Corrections:		S	Site Altitude (ft.):	6800 feet				
	Truck	Loader	Source					
Altitude Adj:	1.000	1.000	(CAT H					
Job Efficiency:	0.830	0.830	(CAT H					
Net Correction:	0.830	0.830						
Loading Tool Cycle Time:	Numbe	r of Loading Tool P	asses Required to	Fill Truck:	3 1	passes		
Excavators and Front Shovels	<u>s:</u>							
Machine Cycle Time vs Selected Value w								
Selected Value w	vithin this Basi	ic Rating: NA						
	vithin this Basi	ic Rating: NA						
Selected Value w Track Loaders – I	vithin this Basi Material Desci	ic Rating: NA		 Dump: 0.10	0			
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr Material Descr	ic Rating: NA ription: Maneuver: NA	ime (load, dump,	·	0 ).575 min	utes		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basi Material Descr Material Descr	ic Rating: NA ription: Maneuver: NA	ime (load, dump,	maneuver):	).575 min	utes		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basi Material Descr M - Unadjusted Ba	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T		maneuver):( Factor (min.)	).575 min Source	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	vithin this Basi Material Descr Material Descr Material 1/8'	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0	0.02	maneuver):( Factor (min.) -0.020	0.575 min Source (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	0.02 gh and up 0.00	maneuver):( Factor (min.)	0.575 min Source (Cat HB) (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi mership of trucks an	0.02 gh and up 0.00	maneuver): ( Factor (min.) -0.020 0.000	0.575 min Source (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basi Material Descr Unadjusted Ba Material 1/8° Conveyor or Common ow	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04	0.02 gh and up 0.00	maneuver): ( Factor (min.) -0.020 0.000 -0.040	0.575 min Source (Cat HB) (Cat HB) (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00	0.02 gh and up 0.00	maneuver):( Factor (min.) -0.020 0.000 -0.040 -0.040	0.575 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time:	maneuver): ( Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	0.575 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment:	maneuver): ( Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100	Source(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutes	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time:	maneuver): ( Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	0.575     min       Source       (Cat HB)       minutes       minutes	utes   		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Material Descr Unadjusted Ba Material 1/8' Conveyor or Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck:	maneuver): ( Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475	0.575     min       Source       (Cat HB)       minutes       minutes			
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4'' diameter -0 dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load '	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050	0.575     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	   		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	Vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ 0.60 1.050	ic Rating: NA ription: Maneuver: NA asic Loader Cycle T ' to 3/4" diameter -0 dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load ' Minutes	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver):( Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 <b>0.475</b> <b>1.050</b> d for site altitude:	0.575 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.600	utes 		
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basi Material Descr Unadjusted Ba Material 1/8' Conveyor or Common ow Constant ope Nominal targ 0.60 1.050 1.00	ic Rating: NA ription:	0.02 gh and up 0.00 d loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): Factor (min.) -0.020 0.000 -0.040 -0.040 0.000 -0.100 0.475 1.050 d for site altitude: d for site altitude:	0.575     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       0.600     ninutes       0.600     1.050       1.000     1.000	     Minutes		
Haul Rou					<b>T</b> 1 D	X 7 1 ·.	Turnel	
------------------	---------	----------	-----------------	----------------	--------------------	----------------	----------------	----------
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	10560	0.00	0.00	1.20	1.20	4223	3.212	
					Haul Time:	3.212	minutes	
Return R			T			11		
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	10560	0.00	0.00	1.20	1.20	4254	2.754	
					Return Time:	2.754	minute	S
				Total Tru	ck Cycle Time:	8.616	minutes	S
Loading To	ol unit							
Ų	uction	1,104.00	LCY/Hour		Adjusted for j	ob efficiency:	916.32	LCY/Hour
Truck Unit Prod	uction							
		211.42	LCY/Hour		Adjusted for j	ob efficiency:	175.48	LCY/Hour
Optimal No. of T	rucks:	5	Truck(s)		Selected Num	ber of Trucks:	6	Truck(s)
			Adjuste	d hourly true	k team production	on: 1,052	2.87 LCY	/Hour
					er team production			/Hour
			Adjusted multip	le truck/loade	er team production	on: 916.	.32 LCY	/Hour
JOB TI	ME AN	ND COST						
Fleet	size:	1	Team(s)	- -	Fotal job time:	0.49	Ho	ours
Unit	cost:	\$1.772	/LCY		Total job cost:	\$803	3	

	Task description:	:Rip	North Facilities Parkin	g Area		
Site:	Peabody Sage	e Creek Mine	Permit Action:	MT3	Permit/J	ob#: <u>C2009087</u>
	PROJECT ID	ENTIFICAT	ION			
	Task #: 030		State: Colorado		Abbreviatio	on: None
		4/2023	County: Routt		Filenan	ne: 030
	User: <u>HR</u>					
	Agency	or organization	n name: DRMS			
	HOURLY EQ	UIPMENT C	<u>COST</u>			
	Basic	Machine: Ca	at D10T - 10SU		Horsepower:	574
	Ripper Att	tachment: <u>3-</u>	Shank Ripper		Shift Basis:	1 per day
					Data Source:	(CRG)
	Cost Breakdown	<u>:</u>		1	Utilization %	
		Ownership (	Cost/Hour:	\$153.67	NA	
		Operating C	Cost/Hour:	\$166.94	100	
	11	er Ownership (		\$22.74	NA	
	Кірј	per Operating ( Operator (		\$11.11 \$41.30	100 NA	
		Total Unit C		\$395.76		
		Total Fleet C	Cost/Hour: \$3	95.76		
	MATERIAL (		~			
	MATERIAL (		<u>S</u> Se	lected estimating n	nethod: Area	
	Alternate Method	ds:				
smic:	NA		Bank Volume:	NA	BCY	NA
Area:	2.60	acres	Rip Depth (ft):	1.50	Volume: 6,292	BCY o
		Source of est	imated quantity: Map 2	2.05.3 M1B		
	HOURLY PR	<b>ODUCTION</b>				
	Seismic:					
			Seismic Velocity:	NA	feet/second	
	Area:					
			ge Ripping Depth:	1.50	feet/pass	
			ge Ripping Width: ge Ripping Length:	<u>8.67</u> 250.00	feet/pass feet/pass	
			erage Dozer Speed:	88.00	feet/minute	
			e Maneuver Time:	0.25	minutes/pass	
			ction per unit area:	0.966	acres/hour	
	Job Condition Co	orrection Factor	<u>rs</u>			
	Un	adjusted Hourl	y Unit Production:	0.966	Acres/hr	
			Site Altitude:	6,800	feet	
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency: Net Correction:	0.83	(1 shift/day)	
					multiplier	
			d Hourly Unit Production l Hourly Fleet Production		Acres/hr Acres/hr	
	IOR TIME AN	•		0.00		
	JOB TIME AN	<u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	<b>Grador</b> (a)	Total ish dimen	2.04	11
	Fleet size:	1	Grader(s)	Total job time:	3.24	Hours
	Unit cost:	\$493.648	Per acre	Total job cost:	\$1,283	

	Task description:	: Rip No	rth Facilities Area				
Site	: _ Peabody Sage	e Creek Mine	Permit Action:	MT3	Permit	/Job#: <u>C2009</u>	087
	PROJECT ID	ENTIFICATION	<u>N</u>				
	Task #: 03		State: Colorado		Abbrevia		
		4/2023	County: Routt		Filena	ame: 031	
	User: <u>HF</u>		55146				
	Agency	or organization na	me: DRMS				
	HOURLY EQ	UIPMENT COS	<u>T</u>				
			10T - 10SU		Horsepower:	574	
	Ripper Att	tachment: <u>3-Sha</u>	nk Ripper		Shift Basis: Data Source:	1 per day (CRG)	
	Cont Donal 1					(CKU)	
	Cost Breakdown	<u>:</u>			Utilization %		
		Ownership Cost		\$153.67	NA		
	р.	Operating Cost		\$166.94	100		
		er Ownership Cost per Operating Cost		\$22.74 \$11.11	NA 100		
	Tup	Operator Cost		\$41.30	NA		
		Total Unit Cost	Hour:	\$395.76			
		Total Fleet Cost	Hour: \$39	95.76			
	MATERIAL (	<u>DUANTITIES</u>	Sel	ected estimating 1	method: Area		
	Alternate Method	ds:		6			
eismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	6.00	acres	Rip Depth (ft):	1.50	Volume: 14,52		BCY or CCY
		Source of estimat	ed quantity: Map 2	2.05.3 M1B	_		
	HOURLY PR		1 J <u>1</u>				
	Seismic:	Sei	smic Velocity:	NA	feet/second		
	A #00.						
	Area:	Average I	Ripping Depth:	1.50	feet/pass		
		Average I	Ripping Width:	8.67	feet/pass		
		0	ipping Length:	250.00	feet/pass		
			aneuver Time:	<u>88.00</u> 0.25	feet/minute minutes/pass	6	
			n per unit area:	0.966	acres/hour		
	Job Condition Co	orrection Factors					
	Un	adjusted Hourly U	nit Production:	0.966	Acres/hr		
			Site Altitude:	6,800	feet		
			Altitude Adj:	1.00	(CAT HB)		
			ob Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
			ourly Unit Production: urly Fleet Production:		Acres/hr Acres/hr		
		·	uniy i leet i foddetion.	0.00			
	JOB TIME AN			m . 11 1 1			r
	Fleet size:	1	Grader(s)	Total job time	. 7.48	H	lours
	Unit cost:	\$493.648	Per acre	Total job cost	: \$2,962	2	

Site: Pea									
	abody Sage Cree	ek Mine	Perm	it Action:	MT3	Permit	/Job#:	C2009087	
<u>PRO</u>	JECT IDENT	IFICATI	<u>ON</u>						
Та	ask #: 032		State:	Colorado		Abbrevia	tion:	None	
I	Date: 2/14/202	23		Routt		Filena	ame:	032	
T	User: HR1								
	Agency or or	ganization	name: DRM	/IS					_
HOU	URLY EQUIPN	MENT CO	<u>DST</u>						
	Basic Mach	ine: Cat	D10T - 10SU			Horsepower:	57	74	
	Ripper Attachm	ent: 3-S	hank Ripper			Shift Basis:	1 per	r day	_
						Data Source:	(CH	RG)	
Cost J	Breakdown:								
						Utilization %			
		vnership Co			\$153.67	NA 100			
		perating Co vnership Co			\$166.94 \$22.74	100 NA			
		perating Co			\$11.11	100			
		Operator Co			\$41.30	NA			
		otal Unit Co			\$395.76				
	То	tal Fleet Co	ost/Hour:	\$395	.76				
МАТ	FERIAL QUA					.1 1 4			
				Sele	cted estimating	method: Area			
Alterr	nate Methods:								
mic: NA				Volume:	NA	BCY		A	
area: 1.6	50	acres	Rip D	epth (ft):	1.50	Volume: <u>3,872</u>	r.	E	BCY or C
	Sou	rce of estir	nated quantity	Map 2.	05.3 M1B				
HOU	URLY PRODU	<b>ICTION</b>							
Seism	nic:								
001011		2	Seismic Veloci	ty:	NA	feet/second			
Aroos				·					
<u>Area:</u>	-	Averag	e Ripping Dep	th	1.50	feet/pass			
			e Ripping Dep		8.67	feet/pass			
			Ripping Leng		250.00	feet/pass			
		0	age Dozer Spe		88.00	feet/minute			
		Average			00.00	icet/initiate			
		Droduot	Maneuver Tir	ne:	0.25	minutes/pass			
		Floduci	Maneuver Tir ion per unit ar	-					
Job C	Condition Correct	ion Factors	ion per unit ar	-	0.25	minutes/pass			
<u>Job C</u>		ion Factors	ion per unit ar	ea:	0.25	minutes/pass			
<u>Job C</u>		ion Factors	ion per unit ar	ea:	0.25 0.966	minutes/pass acres/hour			
<u>Job C</u>		ion Factors	ion per unit ar Unit Productio	ea: on: de:	0.25 0.966 0.966	minutes/pass acres/hour Acres/hr			
<u>Job C</u>		ion Factors	ion per unit ar Unit Producti Site Altitu Altitude A Job Efficien	ea: on: de: dj: cy:	0.25 0.966 0.966 6,800 1.00 0.83	minutes/pass acres/hour Acres/hr feet (CAT HB) (1 shift/day)			
<u>Job C</u>		ion Factors	ion per unit ar Unit Producti Site Altitu Altitude A	ea: on: de: dj: cy:	0.25 0.966 0.966 6,800 1.00	minutes/pass acres/hour Acres/hr feet (CAT HB)			
<u>Job C</u>		ion Factors sted Hourly Adjusted	ion per unit ar Unit Production Site Altitu Altitude A Job Efficien Net Correction Hourly Unit P	ea: de: dj: cy: on: roduction:	0.25 0.966 6,800 1.00 0.83 0.83 0.83	minutes/pass acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr			
<u>Job C</u>		ion Factors sted Hourly Adjusted	ion per unit ar Unit Producti Site Altitu Altitude A Job Efficien Net Correctio	ea: de: dj: cy: on: roduction:	0.25 0.966 6,800 1.00 0.83 0.83	minutes/pass acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier			
		ion Factors sted Hourly Adjusted Adjusted	ion per unit ar Unit Production Site Altitu Altitude A Job Efficien Net Correction Hourly Unit P	ea: de: dj: cy: on: roduction:	0.25 0.966 6,800 1.00 0.83 0.83 0.83	minutes/pass acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr			
JOB	Unadjus	ion Factors sted Hourly Adjusted Adjusted	ion per unit ar Unit Production Site Altitu Altitude A Job Efficien Net Correction Hourly Unit P	ea: de: dj: cy: on: roduction:	0.25 0.966 6,800 1.00 0.83 0.83 0.83	minutes/pass acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr Acres/hr		Hour	s

	Task description:	<b>Rip North Office Parking</b>	Area		<u> </u>
Site:	: Peabody Sage	Creek Mine Permit Action	n: <u>MT3</u>	Permit/Job	#: <u>C2009087</u>
	PROJECT ID	ENTIFICATION			
	Task #: $033$		lo	Abbreviation	
	Date: $2/1$ User: HR	4/2023 County: <u>Routt</u>		Filename	: 033
		or organization name: DRMS			
		UIPMENT COST			
	Basic I Ripper Att	Machine:Cat D10T - 10SUachment:3-Shank Ripper		Horsepower:	574 l per day
	Rupper Au			Data Source:	(CRG)
	Cost Breakdown:				
				Utilization %	
		Ownership Cost/Hour: Operating Cost/Hour:	\$153.67 \$166.94	<u>NA</u> 100	
	Rippe	er Ownership Cost/Hour:	\$22.74	NA	
	11	per Operating Cost/Hour:	\$11.11	100	
		Operator Cost/Hour:	\$41.30	NA	
		Total Unit Cost/Hour:	\$395.76		
		Total Fleet Cost/Hour: \$	395.76		
	MATERIAL Q	DUANTITIES S	Selected estimating n	method: Area	
	Alternate Method	l <u>s:</u>			
smic:	NA	Bank Volume	: NA	BCY	NA
Area:	0.30	acres Rip Depth (ft)	: 1.50	Volume: 726	BCY or
		Source of estimated quantity: Maj	p 2.05.3 M1B		
	HOURLY PRO				
	Seismic:	Seismic Velocity:	NA	feet/second	
	Area:	·			
	<u>Alca.</u>	Average Ripping Depth:	1.50	feet/pass	
		Average Ripping Width:	8.67	feet/pass	
		Average Ripping Length:	250.00	feet/pass	
		Average Dozer Speed: Average Maneuver Time:	<u>88.00</u> 0.25	feet/minute minutes/pass	
		Production per unit area:	0.966	acres/hour	
	Job Condition Co	prrection Factors			
		adjusted Hourly Unit Production:	0.966	Acres/hr	
	0.1	· · · <u> </u>			
		Site Altitude: Altitude Adj:	<u>6,800</u> 1.00	feet (CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Production		Acres/hr	
		Adjusted Hourly Fleet Production	on: <b>0.80</b>	Acres/hr	
	JOB TIME AN	<u>ND COST</u>			
	<b>JOB TIME AN</b> Fleet size:	<u>1</u> Grader(s)	Total job time:	0.37	Hours

Site							
	: Peabody Sage	Creek Mine	Permit Action:	MT3	Permi	t/Job#: <u>C2009087</u>	
	PROJECT ID	ENTIFICATION	[				
	Task #: 034		State: Colorado	)	Abbrevi		
	Date: 2/1 User: HR		County: <u>Routt</u>		Filer	name: 034	
	Agency	or organization nan	ne: DRMS				
	HOURLY EQ	UIPMENT COST	<u>[</u>				
			0T - 10SU		Horsepower:	574	
	Ripper Att	achment: <u>3-Shan</u>	k Ripper		Shift Basis:	1 per day (CRG)	
					Data Source:	(CKO)	
	Cost Breakdown:	<u>.</u>			Utilization %		
		Ownership Cost/H	Hour:	\$153.67	NA		
	р.	Operating Cost/H		\$166.94	100		
		er Ownership Cost/H per Operating Cost/H		\$22.74 \$11.11	NA 100		
	мp	Operator Cost/H		\$41.30	NA		
		Total Unit Cost/H	Hour:	\$395.76			
		Total Fleet Cost/H	Hour: \$3	95.76			
	MATERIAL (		·		.1 1 4		
			Se	elected estimating	method: Area		-
	Alternate Method	<u>ls:</u>					
nic:	NA		Bank Volume:	NA	BCY	NA	<u> </u>
rea:	0.25	acres	Rip Depth (ft):	1.50	Volume: 605	BCI	r or <b>(</b>
			ed quantity: Map	2.05.3 M1B			
	HOURLY PRO	ODUCTION					
	Saismia	obcerion					
	Seismic:						
	<u>Seisinic.</u>		mic Velocity:	NA	feet/second		
	<u>Area:</u>	Seis					
		Seis Average Ri	ipping Depth:	1.50	feet/pass		
		Seis Average Ri Average Ri	ipping Depth: ipping Width:	1.50 8.67	feet/pass feet/pass		
		Seis Average Ri Average Ri Average Ri Average	ipping Depth: ipping Width: pping Length: Dozer Speed:	1.50 8.67 150.00 88.00	feet/pass feet/pass feet/pass feet/minute		
		Seis Average Ri Average Ri Average Ri Average Average Ma	ipping Depth: ipping Width: pping Length: Dozer Speed: neuver Time:	1.50 8.67 150.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	S	
	<u>Area:</u>	Seis Average Ri Average Ri Average Ri Average Average Ma Production	ipping Depth: ipping Width: pping Length: Dozer Speed:	1.50 8.67 150.00 88.00	feet/pass feet/pass feet/pass feet/minute	s	
		Seis Average Ri Average Ri Average Ri Average Average Ma Production	ipping Depth: ipping Width: pping Length: Dozer Speed: neuver Time:	1.50 8.67 150.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	S	
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Average Ma Production	ipping Depth: ipping Width: pping Length: Dozer Speed: neuver Time: per unit area:	1.50 8.67 150.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	s	
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Average Ma Production <u>prrection Factors</u> adjusted Hourly Un	ipping Depth: ipping Width: pping Length: Dozer Speed: neuver Time: per unit area:	$     \begin{array}{r}       1.50 \\       8.67 \\       150.00 \\       88.00 \\       0.25 \\       0.916 \\     \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour	S	
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> adjusted Hourly Un	ipping Depth: ipping Width: pping Length: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj:	1.50 8.67 150.00 88.00 0.25 0.916 0.916 6,800 1.00	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB)		
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> hadjusted Hourly Un	ipping Depth: ipping Width: pozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency:	1.50 8.67 150.00 88.00 0.25 0.916 0.916 6,800 1.00 0.83	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day		
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> hadjusted Hourly Un	ipping Depth: ipping Width: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency: et Correction:	$ \begin{array}{r} 1.50\\ 8.67\\ 150.00\\ 88.00\\ 0.25\\ 0.916\\ \hline 0.916\\ 6,800\\ 1.00\\ 0.83\\ 0.83\\ \hline \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day multiplier		
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> adjusted Hourly Un Jo No Adjusted Hou	ipping Depth: ipping Width: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency: et Correction: urly Unit Production	1.50         8.67         150.00         88.00         0.25         0.916         6,800         1.00         0.83         0.83         0.76	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day multiplier Acres/hr		
	<u>Area:</u> <u>Job Condition Cc</u> Un	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> hadjusted Hourly Un Jo Na Adjusted Hou	ipping Depth: ipping Width: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency: et Correction:	1.50         8.67         150.00         88.00         0.25         0.916         6,800         1.00         0.83         0.83         0.76	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day multiplier		
	<u>Area:</u> Job Condition Co	Seis Average Ri Average Ri Average Ri Average Ma Production <u>prrection Factors</u> hadjusted Hourly Un Jo Na Adjusted Hou	ipping Depth: ipping Width: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency: et Correction: urly Unit Production	1.50         8.67         150.00         88.00         0.25         0.916         6,800         1.00         0.83         0.83         0.76	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day multiplier Acres/hr		
	<u>Area:</u> <u>Job Condition Cc</u> Un	Seis Average Ri Average Ri Average Ri Average Ma Production <u>orrection Factors</u> hadjusted Hourly Un Ja Na Adjusted Hou Adjusted Hou	ipping Depth: ipping Width: Dozer Speed: neuver Time: per unit area: it Production: Site Altitude: Altitude Adj: ob Efficiency: et Correction: urly Unit Production	1.50         8.67         150.00         88.00         0.25         0.916         6,800         1.00         0.83         0.83         0.76	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day multiplier Acres/hr Acres/hr	)	

	Task description:	Rip	South Covered Storage	Area			-
Site:	Peabody Sage	Creek Mine	Permit Action:	MT3	Permit/J	lob#: <u>C2009087</u>	
	PROJECT ID	ENTIFICAT	ION				
	Task #: 035		State: Colorado		Abbreviati	on: None	
		4/2023	County: Routt		Filenar	me: 035	
	User: HR						
	Agency	or organization	n name: DRMS				
	HOURLY EQ	UIPMENT C	<u>COST</u>				
	Basic	Machine: Ca	at D10T - 10SU		Horsepower:	574	
	Ripper Att		Shank Ripper		Shift Basis:	1 per day	
					Data Source:	(CRG)	
	Cost Breakdown:	<u>:</u>					
		Ohin (	Se et /I I e		Utilization %		
		Ownership C Operating C		\$153.67 \$166.94	<u>NA</u> 100		
	Ripp	er Ownership C		\$22.74	NA		
	Rip	per Operating C		\$11.11	100		
		Operator C		\$41.30	NA		
		Total Unit C	Cost/Hour:	\$395.76			
		Total Fleet C	Cost/Hour: \$395	5.76			
	MATERIAL (	)UANTITIE	S Sele	cted estimating n	nethod: Area		
	Alternate Method	ls:		C			_
mic:	NA		Bank Volume:	NA	BCY	NA	
Area:	3.00	acres	Rip Depth (ft):	1.50	Volume: 7,260		$\overline{Y}$ or $Q$
		Source of est	imated quantity: Map 2.	05 3 M1B	· · · · · · · · · · · · · · · · · · ·		
			initiated quantity: <u>initp 2.</u>	00.0 MID			
	HOURLY PRO	ODUCTION					
	Seismic:		<b>C</b> · · <b>X</b> 1 ·				
			Seismic Velocity:	NA	feet/second		
	Area:			1 50			
			ge Ripping Depth: ge Ripping Width:	<u>1.50</u> 8.67	feet/pass feet/pass		
			ge Ripping Width.	250.00	feet/pass		
			rage Dozer Speed:	88.00	feet/minute		
			e Maneuver Time:	0.25	minutes/pass		
		Produ	ction per unit area:	0.966	acres/hour		
	Job Condition Co	orrection Factor	<u>rs</u>				
	Un	adjusted Hourl	y Unit Production:	0.966	Acres/hr		
			Site Altitude:	6,800	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
			d Hourly Unit Production: Hourly Fleet Production:	0.80	Acres/hr Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	1	Grader(s)	Total job time:	3.74	Hours	
	Unit cost:	\$493.648	Per acre	Total job cost:	\$1,481		

	Task description:				
	: Peabody Sage		tion: MT3	Permit/Job#	: C2009087
		ENTIFICATION			
	Task #: $040$			Abbreviation:	None
	Date: 2/1 User: HR	4/2023 County: <u>Rout</u>	l	Filename:	040
		or organization name: DRMS			
					,
		UIPMENT COST			
		Machine: Cat D10T - 10SU		Horsepower:	574
	Ripper Att	achment: <u>3-Shank Ripper</u>			per day CRG)
	Cost Brookdown				
	Cost Breakdown:			Utilization %	
		Ownership Cost/Hour:	\$153.67	NA	
	D.	Operating Cost/Hour:	\$166.94	100	
		er Ownership Cost/Hour:	\$22.74 \$11.11	<u>NA</u> 100	
	Кірі	Operator Cost/Hour:	\$41.30	NA	
		Total Unit Cost/Hour:	\$395.76		
		Total Fleet Cost/Hour:	\$395.76		
	MATERIAL C	<u>DUANTITIES</u>	Selected estimating	method: Area	
	Alternate Method	<u>s:</u>			
mic:	NA	Bank Volu		BCY	NA
rea:	7.10	acres Rip Depth (	(ft): <u>1.50</u>	Volume: 17,182	BCY or C
		Source of estimated quantity: <u>N</u>	/ap 2.05.3 M1B and A	1	
	HOURLY PRO	DUCTION			
	<u>Seismic:</u>	Seismic Velocity:	NA	feet/second	
	•				
	Area:	Average Ripping Depth:	1.50	feet/pass	
		Average Ripping Width:	8.67	feet/pass	
		Average Ripping Length:	250.00	feet/pass	
		Average Dozer Speed:	88.00	feet/minute	
		Average Maneuver Time:	0.25	minutes/pass	
		Production per unit area:	0.966	acres/hour	
	Job Condition Co	rrection Factors			
	Un	adjusted Hourly Unit Production:	0.966	Acres/hr	
			6 900	feet	
		Site Altitude:	0.800		
		Site Altitude: Altitude Adj:	<u> </u>	(CAT HB)	
		Altitude Adj: Job Efficiency:	1.00 0.83	(CAT HB) (1 shift/day)	
		Altitude Adj:	1.00	(CAT HB)	
		Altitude Adj: Job Efficiency: Net Correction: Adjusted Hourly Unit Produc	1.00 0.83 0.83 ction: 0.80	(CAT HB) (1 shift/day) multiplier Acres/hr	
		Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83 ction: 0.80	(CAT HB) (1 shift/day) multiplier	
	JOB TIME AN	Altitude Adj: Job Efficiency: Net Correction: Adjusted Hourly Unit Produc Adjusted Hourly Fleet Produc	1.00 0.83 0.83 ction: 0.80	(CAT HB) (1 shift/day) multiplier Acres/hr	
	<b>JOB TIME AN</b> Fleet size:	Altitude Adj: Job Efficiency: Net Correction: Adjusted Hourly Unit Produc Adjusted Hourly Fleet Produc	1.00 0.83 0.83 ction: 0.80	(CAT HB) (1 shift/day) multiplier Acres/hr Acres/hr	Hours

,	Task description:	Rip	Haulroad B Red	uction					
Site:	Peabody Sage	e Creek Mine	Permit A	Action:	MT3	Perm	nit/Job#:	C200908	7
]	PROJECT ID	ENTIFICATI	<u>ON</u>						
	Task #: $04$			olorado		Abbrev		None	
	Date: 2/1 User: HR	4/2023 R1	County: <u>Ro</u>	outt		F116	ename:	041	
		or organization	name: DRMS						
	HOURLY EQ	C							
-			: D10T - 10SU			Horsepower:	5	74	
	Ripper Att		hank Ripper			Shift Basis:		r day	
						Data Source:	(C.	RG)	
<u>(</u>	Cost Breakdown:	<u>:</u>			1				
		Ownership Co	ost/Hour		\$153.67	Utilization % NA			
		Operating Co			\$166.94	100			
		er Ownership Co			\$22.74	NA			
	Rip	per Operating Co Operator Co			\$11.11 \$41.30	100 NA			
		Total Unit Co			\$395.76	1111			
		Total Fleet Co	ost/Hour:	\$395	5 76				
-	MATERIAL (			Sele	ected estimating	method: Area			
-	Alternate Method	<u>ls:</u>							
nic:	NA		Bank Vo		NA	BCY		NA	
rea:	4.80	acres	Rip Dept	· · · –	1.50		616		BCY or C
]	HOURLY PRO		nated quantity: _	<u>- 1114p 2</u> .	oolo inii D unu i	•			
<u>,</u>	<u>Seismic:</u>		Seismic Velocity:		NA	feet/second	4		
		,	seisine verberty.		INA		J		
4	Area:	Averao	e Ripping Depth:		1.50	feet/pass			
			e Ripping Width:		8.67	feet/pass			
			e Ripping Length:		250.00	feet/pass			
			age Dozer Speed: Maneuver Time:		88.00 0.25	feet/minut minutes/pa			
			tion per unit area:		0.966	acres/hour			
	Job Condition Co	orrection Factors	-						
-			Unit Production:		0.966	Acres/hr			
			Site Altitude:		6,800	feet			
			Altitude Adj:	-	1.00	(CAT HB)	)		
			Job Efficiency:	-	0.83	(1 shift/da	y)		
			Net Correction:		0.83	multiplier			
			Hourly Unit Proc Hourly Fleet Proc		0.80 0.80	Acres/hr Acres/hr			
	JOB TIME AN	ND COST							
	Fleet size:	1	Grader(s)		Total job time	e: <b>5.</b> 9	9	Hou	rs
	Unit cost:	\$493.648	Per acre		Total job cos	t: <b>\$2,3</b>	570		

Site						
	: Peabody Sage	e Creek Mine	Permit Action	: <u>MT3</u>	Permi	t/Job#: <u>C2009087</u>
	PROJECT ID	ENTIFICATI	ON			
	Task #: 042		State: Colorade	0	Abbrevia	
	Date: 2/1 User: HR	4/2023	County: Routt		Filen	ame: 042
	Agency	or organization	name: DRMS			
	HOURLY EQ	UIPMENT C	<u>OST</u>			
			t D10T - 10SU		Horsepower:	574
	Ripper Att	tachment: <u>3-8</u>	Shank Ripper		Shift Basis: Data Source:	1 per day (CRG)
						(CRU)
	Cost Breakdown	• <u>•</u>		1	Utilization %	
		Ownership C		\$153.67	NA	
	D	Operating C		\$166.94	100	
		er Ownership C per Operating C		\$22.74 \$11.11	NA 100	
	nip	Operator C		\$41.30	NA	
		Total Unit C	ost/Hour:	\$395.76		
		Total Fleet C	ost/Hour: \$3	395.76		
	MATERIAL (				and had a Amag	
			<u>-</u> 5	elected estimating r	method: Area	
	Alternate Method	<u>ds:</u>				
mic:	NA		Bank Volume:		BCY	NA
rea:	2.10	acres	Rip Depth (ft):	1.50	Volume: <u>5,082</u>	BCY or
		Source of esti	mated quantity: Map	2.05.3 M1B and A		
	HOURLY PR	ODIGETON				
		<u>ODUCTION</u>				
	Seismic:					
	Seismic:		Seismic Velocity:	NA	feet/second	
	<u>Seismic:</u> <u>Area:</u>		·			
		Averaş	ge Ripping Depth:	1.50	feet/pass	
		Averaş Averaş	ge Ripping Depth: ge Ripping Width:	1.50 8.67	feet/pass feet/pass	
		Averaş Averaş Averag Aver	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed:	1.50 8.67 250.00 88.00	feet/pass feet/pass feet/pass feet/minute	
		Averag Averag Averag Aver Average	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time:	1.50 8.67 250.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	S
	<u>Area:</u>	Averag Averag Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area:	1.50 8.67 250.00 88.00	feet/pass feet/pass feet/pass feet/minute	S
		Averag Averag Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area:	1.50 8.67 250.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	S
	<u>Area:</u> Job Condition Co	Averaş Averaş Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area:	1.50 8.67 250.00 88.00 0.25	feet/pass feet/pass feet/pass feet/minute minutes/pas	S
	<u>Area:</u> Job Condition Co	Averaş Averaş Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area: s	$     \begin{array}{r}       1.50 \\       8.67 \\       250.00 \\       88.00 \\       0.25 \\       0.966 \\     \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour	S
	<u>Area:</u> Job Condition Co	Averaş Averaş Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area: stion per unit area: Site Altitude: Altitude Adj:	$ \begin{array}{r} 1.50\\ 8.67\\ 250.00\\ 88.00\\ 0.25\\ 0.966\\ 0.966\\ 6,800\\ 1.00\\ \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB)	
	<u>Area:</u> Job Condition Co	Averaş Averaş Averag Aver Average Produc	ge Ripping Depth: ge Ripping Width: e Ripping Length: e Maneuver Speed: e Maneuver Time: etion per unit area: stion per unit area: Site Altitude: Altitude Adj: Job Efficiency:	$ \begin{array}{r} 1.50\\ 8.67\\ 250.00\\ 88.00\\ 0.25\\ 0.966\\ \hline 0.966\\ \hline 6,800\\ 1.00\\ 0.83\\ \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day)	
	<u>Area:</u> Job Condition Co	Averaş Averag Aver Aver Average Produc <u>orrection Factor</u> adjusted Hourly	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area: stion per unit area: S v Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	$ \begin{array}{r} 1.50\\ 8.67\\ 250.00\\ 88.00\\ 0.25\\ 0.966\\ \hline 0.966\\ \hline 6,800\\ 1.00\\ 0.83\\ 0.83\\ \hline 0.83 \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier	
	<u>Area:</u> Job Condition Co	Averag Averag Average Average Produc <u>orrection Factor</u> adjusted Hourly	ge Ripping Depth: ge Ripping Width: e Ripping Length: e Maneuver Speed: e Maneuver Time: e Maneuver Time: e Maneuver Time: e Maneuver Time: for the speed: ge Maneuver Time: e Maneuver Time: for the speed: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production	$ \begin{array}{r} 1.50 \\ 8.67 \\ 250.00 \\ 88.00 \\ 0.25 \\ 0.966 \\ \hline 0.966 \\ \hline 6,800 \\ 1.00 \\ 0.83 \\ 0.83 \\ \hline 1. 0.80 \\ \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr	
	<u>Area:</u> <u>Job Condition Co</u> Un	Averag Averag Average Aver Average Produc <u>orrection Factors</u> hadjusted Hourly Adjusted	ge Ripping Depth: ge Ripping Width: e Ripping Length: rage Dozer Speed: e Maneuver Time: etion per unit area: stion per unit area: S v Unit Production: Site Altitude: Altitude Adj: Job Efficiency: Net Correction:	$ \begin{array}{r} 1.50 \\ 8.67 \\ 250.00 \\ 88.00 \\ 0.25 \\ 0.966 \\ \hline 0.966 \\ \hline 6,800 \\ 1.00 \\ 0.83 \\ 0.83 \\ \hline 1. 0.80 \\ \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier	
	<u>Area:</u> Job Condition Co	Averag Averag Average Aver Average Produc <u>orrection Factors</u> hadjusted Hourly Adjusted	ge Ripping Depth: ge Ripping Width: e Ripping Length: e Maneuver Speed: e Maneuver Time: e Maneuver Time: e Maneuver Time: e Maneuver Time: for the speed: ge Maneuver Time: e Maneuver Time: for the speed: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production	$ \begin{array}{r} 1.50 \\ 8.67 \\ 250.00 \\ 88.00 \\ 0.25 \\ 0.966 \\ \hline 0.966 \\ \hline 6,800 \\ 1.00 \\ 0.83 \\ 0.83 \\ \hline 1. 0.80 \\ \end{array} $	feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr	
	<u>Area:</u> <u>Job Condition Co</u> Un	Averag Averag Average Aver Average Produc <u>orrection Factors</u> hadjusted Hourly Adjusted	ge Ripping Depth: ge Ripping Width: e Ripping Length: e Maneuver Speed: e Maneuver Time: e Maneuver Time: e Maneuver Time: e Maneuver Time: for the speed: ge Maneuver Time: e Maneuver Time: for the speed: Site Altitude: Altitude Adj: Job Efficiency: Net Correction: Hourly Unit Production	$ \begin{array}{r} 1.50 \\ 8.67 \\ 250.00 \\ 88.00 \\ 0.25 \\ 0.966 \\ \hline 0.966 \\ \hline 6,800 \\ 1.00 \\ 0.83 \\ 0.83 \\ \hline 1. 0.80 \\ \end{array} $	feet/pass feet/pass feet/pass feet/pass feet/minute minutes/pas acres/hour Acres/hr feet (CAT HB) (1 shift/day) multiplier Acres/hr Acres/hr	

Task description:		Regrac	it muun o		iuction			
Peabody Sage	Creek N	<b>/Iine</b>	Per	mit Action:	MT3		Permit/Job#:	C2009087
PROJECT IDE	ENTIFI	CATIO	N					
Task #: 045			State:	Colorado			Abbreviation:	None
	4/2023		County:	Routt			Filename:	045
User: HR			<b></b>					
Agency	or organ	ization na	me: DR	RMS				
HOURLY EQU	J <b>IPME</b>	NT COS	5 <u>T</u>					
Basic Machine		D10T - 1	OSU					
Horsepower								
Blade Type		i-Univers						
Attachment		ank rippe	r					
Shift Basis	<b>1</b>	r day						
Data Source	: <u>(CR</u>	G)						
Cost Breakdown:								
<b>.</b>	~~					tion %		
Ownership Cost				\$153.67	N			
Operating Cost				\$166.94		00		
Ripper own. Cost				\$22.74	<u>N</u>			
Ripper op. Cost				\$11.11 \$41.30		00		
					N	Λ		
Operator Cost	-			\$41.50	N	Λ		
Operator Cost. Total unit Cost/He	our:	\$395.76		\$41.30	IN	Α		
Operator Cost	our:	\$395.76 <b>\$791.52</b>		\$41.50	IN	Δ		
Operator Cost. Total unit Cost/He	our: Iour:	\$791.52		\$41.3U	N	<u>A</u>		
Operator Cost. Total unit Cost/H Total Fleet Cost/H MATERIAL Q	our: Iour: <b>UANT</b>	\$791.52 ITIES		\$41.30	N	<u>A</u>		
Operator Cost. Total unit Cost/H Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume:	our: Iour: <u>UANT</u> 	<b>\$791.52</b> ITIES 32				A		
Operator Cost. Total unit Cost/He Total Fleet Cost/F MATERIAL Q Initial Volume: Swell factor:	our: Iour: <u>UANT</u> <u>17,18</u> <u>1.000</u>	<b>\$791.52</b> ITIES 32			IN	Α		
Operator Cost Total unit Cost/He Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume:	Dur: Hour: UANT 17,18 1.000 17,18	\$791.52 ITIES 32 ) 32 LCY						
Operator Cost. Total unit Cost/H Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume: Swell factor: Loose volume: Source of estimate	Dur: Hour: UANT 17,18 1.000 17,18 ed volum	\$791.52 ITIES 32 32 32 LCY ne:	Division	 of Reclamati	on, Mining &			
Operator Cost Total unit Cost/He Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume:	Dur: Hour: UANT 17,18 1.000 17,18 ed volum	\$791.52 ITIES 32 32 32 LCY ne:		 of Reclamati				
Operator Cost Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	bur: Hour: $\frac{17,18}{1.000}$ $\frac{17,18}{17,18}$ $\frac{1000}{17,18}$ $\frac{1000}{17,18}$ $\frac{1000}{17,18}$	\$791.52 <u>ITIES</u> 32 32 32 LCY he: factor:	Division	 of Reclamati				
Operator Cost Total unit Cost/He Total Fleet Cost/H MATERIAL O Initial Volume: Swell factor: Loose volume: Source of estimate	bur: Hour: $\frac{17,18}{1.000}$ $\frac{17,18}{17,18}$ $\frac{1000}{17,18}$ $\frac{1000}{17,18}$ $\frac{1000}{17,18}$	\$791.52 <u>ITIES</u> 32 32 32 LCY he: factor:	Division	 of Reclamati				
Operator Cost Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	Dur: Hour: UANT 17,18 1.000 17,18 ed volum ed swell DUCT	\$791.52 ITIES 32 32 32 32 LCY he: factor: ION	Division	 of Reclamati				
Operator Cost Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO	bur: Hour: $\frac{17,18}{1.000}$ $\frac{17,18}{1.000}$ ed volumed swell DDUCT ance:	\$791.52 ITIES 32 32 LCY he: factor: 10N 2	Division o Cat Hand	of Reclamati				
Operator Cost Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate MOURLY PRO	bur: Hour: $\frac{17,18}{1.000}$ and swell $\frac{17,18}{1.000}$	\$791.52 ITIES 32 32 32 LCY ne: factor: 10N 100 2 tion: 7	Division Cat Hand 50 feet 54.3 LCY/	of Reclamati	on, Mining &			
Operator Cost. Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consister	bur: Hour: 17,18 1000 17,18 ed volumed swell <b>DUCT</b> ance: y product	\$791.52 ITIES 32 32 32 LCY ne: factor: 10N 100 10 10 10 10 10 10 10 10 10 10 10 10	Division Cat Hand 50 feet 54.3 LCY/	of Reclamati book	on, Mining &			
Operator Cost. Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRC Average push dist Unadjusted hourly Materials consister Average push gra	bur: Hour: UANT 17,18 1.000 17,18 ed volum ed swell DUCT ance: y product ency dese dient:	\$791.52 ITIES 32 32 32 COM ION Cription: 0 %	Division ( Cat Hand 50 feet 54.3 LCY/ Rock, v	of Reclamati book	on, Mining &			
Operator Cost. Total unit Cost/He Total Fleet Cost/He MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRC Average push dist Unadjusted hourly Materials consister	bur: Hour: UANT 17,18 1.000 17,18 ed volum ed swell DUCT ance: y product ency dese dient:	\$791.52 ITIES 32 32 32 LCY ne: factor: 10N 100 10 10 10 10 10 10 10 10 10 10 10 10	Division ( Cat Hand 50 feet 54.3 LCY/ Rock, v	of Reclamati book	on, Mining &			
Operator Cost. Total unit Cost/He Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRC Average push dist Unadjusted hourly Materials consiste Average push gra	bur: Hour: UANT 17,18 1.000 17,18 ed volum ed swell DUCT ance: y product ency dese dient:	\$791.52 ITIES 32 32 32 COM ION Cription: 0 %	Division o Cat Hand 50 feet 54.3 LCY/ Rock, v et	of Reclamati book	on, Mining &			
Operator Cost. Total unit Cost/He Total Fleet Cost/F MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate Muterials consiste Average push gra Average push gra	bur: Hour: 17,18 1,000 17,18 1,000 17,18 ed volumed swell <b>DUCT</b> ance: y product ancy desended ancy desended ance: y product	\$791.52 ITIES 32 32 LCY he: factor: 10N 10N 2 tion: 2 7 cription: 0 % 6,800 fe 2,650 lb	Division of Cat Hand 50 feet 54.3 LCY/ Rock, v et et	of Reclamati book	on, Mining &			
Operator Cost. Total unit Cost/H Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate Mourly PRC Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight:	bur: Hour: UANT 17,18 1.000 17,18 ed volumed swell DUCT ance: y product ancy dese dient: ide: n:	\$791.52 ITIES 32 32 32 32 32 32 32 32 32 32 32 32 32	Division of Cat Hand 50 feet 54.3 LCY/ Rock, v et et	 of Reclamati book /hr well ripped o 	on, Mining &   r blasted 0.8			
Operator Cost. Total unit Cost/He Total Fleet Cost/H <b>MATERIAL Q</b> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <b>HOURLY PRO</b> Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co	bur: Hour: UANT 17,18 1.000 17,18 ed volumed swell DUCT ance: y product ancy dese dient: ide: n:	\$791.52 ITIES 32 Control Contr	Division of Cat Hand 50 feet 54.3 LCY/ 	 of Reclamati book /hr well ripped o 	on, Mining & 	Safety		
Operator Cost. Total unit Cost/He Total Fleet Cost/He <b>MATERIAL Q</b> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate Moure of estimate Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co Op	bur: Iour: Iour: Iour: Iour: Iour: Iourited to the second sec	\$791.52 ITIES 32 32 32 32 CUCY 100 11 12 12 12 12 12 12 12 12 12 12 12 12	Division Cat Hand 50 feet 54.3 LCY/ Rock, v et ss/LCY posed rock 0. 0.		on, Mining & 	Safety Source (AVG.) CAT HB)		
Operator Cost. Total unit Cost/He Total Fleet Cost/He <b>MATERIAL Q</b> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate Moure of estimate Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio Job Condition Co Op	bur: Hour: 17,18 1,000 17,18 1,000 17,18 ed volumed swell DUCT ance: y product ancy dese dient: ade: n: rrection perator S	\$791.52 ITIES 32 32 32 LCY ne: factor: ION 100 100 100 100 100 100 100 100 100 10	Division Cat Hand 50 feet 54.3 LCY/ <u>Rock, v</u> eet s/LCY posed rock 0. 0.		on, Mining & 	Safety Source AVG.)		

Task # 045

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	,ht:	0.868	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3458	
Adjusted unit production:	260	).84 LCY/hr	
· · ·		1.68 LCY/hr	
	-		

Fleet size:	2 Dozer(s)
Unit cost:	\$1.517/LCY

Total job time:	<b>32.94</b> Hours
Total job cost:	\$26,070

Task description:	Regrade F	Iaulroad B Reduct	ion		
Peabody Sage Creel	k Mine	Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTI	FICATION				
Task #: 046		State: Colorado		Abbreviation:	None
Date: 2/14/2023		ounty: Routt		Filename:	046
User: HR1				-	
Agency or org	ganization name	DRMS			
HOURLY EQUIPM	IENT COST				
	Cat D10T - 10SU	J			
	74				
<i>•</i> • • • • • • • • • • • • • • • • • •	emi-Universal -shank ripper				
	per day				
	CRG)				
	,				
Cost Breakdown:			Utilization %		
Ownership Cost/Hour	:	\$153.67	NA		
Operating Cost/Hour	:	\$166.94	100		
Ripper own. Cost/Hour		\$22.74	NA		
Dinner on Cost/Hour		\$11.11	100		
Ripper op. Cost/Hour					
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour:	\$395.76 <b>\$791.52</b>	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u>	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u>	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616	\$41.30	NA		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u>	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di	vision of Reclamati	NA  on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u>	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <b>MATERIAL QUAN</b> Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u> Source of estimated vol Source of estimated swe	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca	vision of Reclamati			
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated swo HOURLY PRODUC	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION	vision of Reclamati t Handbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u> Source of estimated vol Source of estimated swe HOURLY PRODUC	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca <u>CTION</u> 250 f	vision of Reclamati t Handbook			
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated swo HOURLY PRODUC	\$395.76 <b>\$791.52</b> <b>XTITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION luction: 754.2	vision of Reclamati t Handbook	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION luction: 250 f 100 (754.3) luction: 250 f 100 (754.3)	vision of Reclamati t Handbook feet 3 LCY/hr	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u> Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION luction: 250 f 100 (754.3) luction: 250 f 100 (754.3)	vision of Reclamati t Handbook feet 3 LCY/hr	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1.0</u> Loose volume: <u>11</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION luction: 754.2 lescription: 0 %	vision of Reclamati t Handbook feet 3 LCY/hr Rock, well ripped o	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description:	\$395.76 <b>\$791.52</b> <b>TITIES</b> ,616 000 ,616 LCY lume: Di ell factor: Ca CTION luction: 754.3 lescription: 2 0 % 6,800 feet 2,650 lbs/L Decompose	vision of Reclamati t Handbook feet 3 LCY/hr Rock, well ripped o	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{r} & \$ 395.76 \\ \hline \$ 791.52 \\ \hline \end{array}$	vision of Reclamati vision of Reclamati t Handbook feet 3 LCY/hr Rock, well ripped of CY cY cd rock - 25% Rock,	on, Mining & Safety   r blasted 0.8  75% Earth <u>Source</u>		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	$\begin{array}{c} \$ 395.76 \\ \$ 791.52 \\ \hline \\ \hline \\ $	vision of Reclamati vision of Reclamati t Handbook feet 3 LCY/hr Rock, well ripped of CY cY cd rock - 25% Rock, 0.750	on, Mining & Safety 		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 11 Swell factor: 1.0 Loose volume: 11 Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{c c} & \$ 395.76 \\ \hline \$ 791.52 \\ \hline \end{array}$	vision of Reclamati vision of Reclamati t Handbook feet 3 LCY/hr Rock, well ripped of CY cY cd rock - 25% Rock,	on, Mining & Safety   r blasted 0.8  75% Earth <u>Source</u>		

Task # 046

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: <u>0.3458</u>	
Adjusted unit production:	260.84 LCY/hr	
Adjusted fleet production:	521.68 LCY/hr	
-		

Fleet size:	2 Dozer(s)
Unit cost:	\$1.517/LCY

Total job time:	<b>22.27</b> Hours
Total job cost:	\$17,624

Page 1 of 2

Task descripti	ion:	-	Regia	iue mau	lroad D					
Peabody Sa	age Cre	eek M	ine	]	Permit Ac	tion:	MT3		Permit/Job#	: <u>C2009087</u>
PROJECT 1	IDENT	<b>FIFIC</b>	CATIC	<u>DN</u>						
Task #:	047			Stat	e: Colo	orado			Abbreviation:	None
	2/14/20	)23		Count	-				Filename:	047
	HR1	-								
Age	ncy or o	organiz	zation r	name:	DRMS					
HOURLY B	EQUIP	MEN	NT CO	<u>ST</u>						
Basic Macl	hine:	Cat I	D10T -	10SU						
Horsepo		574								
Blade T	• • -		-Unive							
Attachn			ınk ripp	ber						
Shift B		1 per								
Data Sou	urce:	(CRC	(ť							
Cost Breakdo	wn:									
	~				÷.		<u>U</u>	tilization %		
Ownership C					\$15			NA		
Operating C					\$16			100		
Ripper own. C						2.74		NA 100		
Ripper op. C						1.11		100		
Operator C	_ost/Ho	ur:			\$4	1.30		NA		
	st/Hour:		\$395.7 \$701 5							
Total Fleet Co	ost/Hour	r:	\$791.5							
Total Fleet Co	ost/Hour LQUA me: _5	r:	\$791.5							
Total Fleet Co MATERIAL Initial Volue	Dost/Hour LQUA me:	r:	\$791.5 <u>TIES</u>							
Total Fleet Co <u>MATERIA</u> Initial Volue Swell fac Loose volue Source of esti-	Dost/Hour L QUA me: etor: me: mated v	r:	<b>\$791.5</b> <b>TIES</b> LCY e:	Divisi		lamati	on, Minir	ng & Safety		
Total Fleet Co <u>MATERIAI</u> Initial Volu Swell fac Loose volu	Dost/Hour L QUA me: etor: me: mated v	r:	<b>\$791.5</b> <b>TIES</b> LCY e:	Divisi	on of Rec andbook	lamati	on, Minin	ng & Safety		
Total Fleet Co <u>MATERIA</u> Initial Volue Swell fac Loose volue Source of esti-	bst/Hour <b>L QUA</b> me: <u>5</u> me: <u>5</u> mated v mated s	r:	\$791.5 TIES LCY e: čactor:	Divisi		lamati	on, Minir	ng & Safety		
Total Fleet Co <u>MATERIAI</u> Initial Volue Swell fac Loose volue Source of esti Source of esti	Dest/Hour L QUA me: tor: me: mated v mated s PRODU	r:	\$791.5 TIES LCY e: čactor:	Divisi	andbook	lamati	on, Minin	ıg & Safety		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti HOURLY F	bost/Hour me: me: mated v mated s PRODU	r:	\$791.5 TIES LCY e: factor:	Divisi Cat H	andbook	lamati		ıg & Safety		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti HOURLY F Average push	bost/Hour me: tor: me: mated v mated v mated s PRODU	r:	\$791.5 TIES LCY e: actor: (ON ion:	Divisi Cat H 250 feet 754.3 L0	andbook					
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti HOURLY F Average push Unadjusted ho Materials com Average push	bost/Hour L QUA me: tor: me: mated v mated v mated s PRODU distance ourly pro- sistency gradien	r:	\$791.5 TIES LCY e: àctor: (ON ion: ription: 0 %	Divisi Cat H 250 feet 754.3 L0 Roc	andbook CY/hr					
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti HOURLY F Average push Unadjusted ho Materials cons	bost/Hour L QUA me: tor: me: mated v mated v mated s PRODU distance ourly pro- sistency gradien	r:	\$791.5 TIES LCY e: àctor: (ON ion: ription:	Divisi Cat H 250 feet 754.3 L0 Roc	andbook CY/hr					
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti HOURLY F Average push Unadjusted ho Materials com Average push	bost/Hour L QUA me: tor: me: mated v mated v mated s PRODU sistency a gradient altitude:	r:	\$791.5 TIES LCY e: cactor: (ON ion: ription: 0 % 6,800	Divisi Cat H 250 feet 754.3 L0 Roc	andbook CY/hr					
Total Fleet Co MATERIAL Initial Volum Swell fac Loose volum Source of esti Source of esti HOURLY H Average push Unadjusted ho Materials com Average push Average site a	bost/Hour me: tor: me: mated v mated v mated s PRODU distance burly pro- sistency a gradient altitude: ght:	r:	\$791.5 TIES LCY e: cactor: [ON ion:	Divisi Cat H 250 feet 754.3 L0 Roc feet	andbook CY/hr	pped or	: blasted (	).8		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti Source of esti HOURLY F Average push Unadjusted ho Materials com Average site a Material weig	bost/Hour L QUA me: tor: me: mated v mated v mated s PRODU Sistency a gradient altitude: ght: iption:	r:	\$791.5 TIES LCY e: cactor: (ON ion: 0% 6,800 2,650 Decon	Divisi Cat H 250 feet 754.3 L0 Roc feet	andbook CY/hr k, well rip	pped or	: blasted (	).8		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti Source of esti Average push Unadjusted ho Materials cons Average site a Material weig Weight descri Job Condition	bost/Hour me: tor: me: mated v mated v mated s PRODU ourly pro- sistency a gradient altitude: ght: iption: <u>Correc</u> Opera	r:	\$791.5 TIES LCY e: cactor: CON ion: 0% 6,800 2,650 Decon Cactor cill:	Divisi Cat H 250 feet 754.3 L0 Roc feet	2Y/hr k, well rip ock - 25% 0.750	pped or	: blasted (	0.8 th <u>Source</u> (AVG.)		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti Source of esti Average push Unadjusted ho Materials cons Average site a Material weig Weight descri Job Condition	bost/Hour me: tor: me: mated v mated v mated v mated v mated s PRODU distance ourly pro- sistency a gradient altitude: ght: iption: <u>Correc</u> Opera erial con	r:	\$791.5 TIES LCY e: actor: (ON ion: ription: 0 % 6,800 2,650 Decon Sactor kill: here:	Divisi Cat H 250 feet 754.3 L0 Roc feet	andbook CY/hr k, well rip ock - 25% 0.750 0.800	pped or	: blasted (	0.8 th <u>Source</u> (AVG.) (CAT HB)		
Total Fleet Co MATERIAL Initial Volue Swell fac Loose volue Source of esti Source of esti Source of esti Average push Unadjusted ho Materials cons Average site a Material weig Weight descri Job Condition	bost/Hour me: tor: me: mated v mated v mated v mated s PRODU distance ourly pro- sistency a gradient altitude: tht: <u>Correc</u> Opera erial con Dozing	r:	\$791.5 TIES LCY e: actor: (ON ion: ription:  0 % 6,800 2,650 Decon con con con con con con con	Divisi Cat H 250 feet 754.3 L0 Roc feet	2Y/hr k, well rip ock - 25% 0.750	pped or	: blasted (	0.8 th <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3458	
Adjusted unit production: 20	50.84 LCY/hr	
Adjusted fleet production: 52	21.68 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.517/LCY

Total job time:	9.93 Hours
Total job cost:	\$7,856

Page 1 of 2

	on:		8 11	r Sump			
: Peabody Sa	age Cro	eek Mine	<u>e</u> P	ermit Action:	MT3	Permit/Job#:	C2009087
PROJECT I	IDENT	<b>FIFICA</b>	TION				
Task #: (	050		State	: Colorado		Abbreviation:	None
	2/14/20	)23	County			Filename:	050
	HR1					· · · · · ·	
Agen	ncy or o	organizati	ion name:	DRMS			
HOURLY E	QUIP	MENT	COST				
Basic Mach	nine:		T - 10SU				
Horsepov		574					
Blade T	• • -	Semi-Ur					
Attachm		3-shank					
Shift Ba		1 per day	У				
Data Sou	irce:	(CRG)					
Cost Breakdow	wn:						
					Utilization %		
Ownership C				\$153.67	NA		
Operating C				\$166.94	100		
Ripper own. C				\$22.74	NA		
Ripper op. C				\$0.00	0		
Operator C	Cost/Ho	our:		\$41.30	NA		
Total Fleet Co	ost/Hou	r: <u>\$3</u> 8	84.65				
MATERIAL	L QUA	NTITI					
MATERIAL	L <b>QUA</b> me:	<b>NTITII</b> 3,388					
MATERIAL Initial Volun Swell fact	L QUA me:	<b>NTITII</b> 3,388 1.125	<u>ES</u>				
MATERIAL Initial Volun Swell fact Loose volun	L QUA me:	<b>NTITII</b> 3,388 1.125 <b>3,812</b> LC	<u>ES</u>				
MATERIAL Initial Volun Swell fact Loose volun Source of estin	L QUA me: tor: me: mated v	ANTITII 3,388 1.125 <b>3,812</b> LC volume:	ES Y Divisio		ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun	L QUA me: tor: me: mated v	ANTITII 3,388 1.125 <b>3,812</b> LC volume:	ES Y Divisio	on of Reclamati ndbook	ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun Source of estin	L QUA me: tor: me: mated v mated s	<b>ANTITII</b> 3,388 1.125 <b>3,812</b> LC volume: swell facto	ES Y or: Divisio Cat Ha		ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin	L QUA me: tor: me: mated v mated s	ANTITII 3,388 1.125 <b>3,812</b> LC 70lume: well facto UCTION	ES PY or: Divisic Or: Cat Ha		ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P	L QUA me: tor: me: mated v mated s PRODI	ANTITII 3,388 1.125 <b>3,812</b> LC 70lume: well facto UCTION we:	ES Y or: Division Cat Ha N 200 feet	ndbook	ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho	L QUA me: tor: me: mated v mated s PRODU distanc purly pr	ANTITII 3,388 1.125 3,812 LC volume: well facto UCTION re: oduction:	$   \underline{ES} $ $   \underline{Y} $ or: $\underline{Divisio}$ $   \underline{Cat Ha} $ $   \underline{N} $ $   \underline{200 \text{ feet}} $ $   \underline{946.0 LC} $	ndbook			
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push o Unadjusted ho Materials cons	L QUA me: tor: me: mated v mated s PRODI distance ourly pr sistency	ANTITII 3,388 1.125 3,812 LC volume: well facto UCTION we: oduction: v descripti	ES PY or: Division or: Cat Ha N 200 feet 946.0 LC ion: Com	ndbook	ion, Mining & Safety		
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho	L QUA me: me: mated v mated v mated s PRODI distance purly pr sistency gradier	ANTITII 3,388 1.125 3,812 LC volume: well facto WCTION we: oduction: v description: nt:0 9	ES PY or: Division or: Cat Ha N 200 feet 946.0 LC ion: Com	ndbook			
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho Materials cons Average push Average site al	L QUA me: me: mated v mated s mated s PRODI distanco purly pr sistency gradier ltitude:	ANTITII           3,388           1.125           3,812 LC           zolume:           zolume:           zwell factor           UCTION           ce:           oduction:           z description           nt:         0 %           6,8	ES PY or: Divisic or: Cat Ha N 200 feet : 946.0 LC ion: Com	ndbook			
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho Materials cons Average push Average site al	L QUA me: me: mated v mated v mated s PRODI distancourly pr sistency gradier lititude: ht:	$\frac{\mathbf{ANTITII}}{3,388}$ $1.125$ $3,812 LC$ $70 lume:$ $5well factor \frac{UCTION}{CCTION} 7 description: 7 description: 11: 0 9 6,8 2,6$	ES Y or: Divisio Cat Ha N 200 feet 200 feet ion: Com % 300 feet 550 lbs/LCY	ndbook	mbankment 0.9		
MATERIAL Initial Volum Swell fact Loose volum Source of estim Source of estim HOURLY P Average push Unadjusted ho Materials cons Average push Average site al Material weigh	L QUA me: me: mated v mated v mated s PRODI distanc purly pr sistency gradier lititude: ht: ption:	ANTITII           3,388           1.125           3,812 LC           yolume:           yolume:           ywell factor           oduction:           y description           nt:         0 %           6,8           2,6           De	ES PY Or: Divisic Or: Cat Ha N 200 feet 300 feet 550 lbs/LCY ecomposed roc	ndbook Y/hr pacted fill or e			
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho Materials cons Average push Average site al Material weigh	L QUA me: me: mated v mated v mated s <b>PRODI</b> distanc purly pr sistency gradier lititude: ht: ption: <u>Correc</u>	ANTITII           3,388           1.125           3,812 LC           yolume:           yolume:           ywell factor           oduction:           y description           nt:         0 %           6,8           2,6           De	ES PY Or: Divisio Cat Ha N 200 feet 946.0 LC ion: Com % 300 feet 550 lbs/LCY ecomposed ro- or	ndbook Y/hr pacted fill or e	mbankment 0.9		
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho Materials cons Average push Average site al Material weigh Weight descrip Job Condition	L QUA me: me: mated v mated v distance v urly pr sistency gradier lititude: ht: ption: <u>Correc</u> Opera rial cor	ANTITII 3,388 1.125 3,812 LC 7 olume: 7 olume: 9 well factor UCTION 0 e: 7 description 11: 09 6,8 2,6 De 2,6 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	ES Y or: Divisio Cat Ha N 200 feet 946.0 LC ion: Com % 300 feet 550 lbs/LCY ecomposed row	ndbook Y/hr pacted fill or e  ck - 25% Rock 0.750 0.900			
MATERIAL Initial Volun Swell fact Loose volun Source of estin Source of estin HOURLY P Average push Unadjusted ho Materials cons Average push Average site al Material weigh Weight descrip Job Condition	L QUA me: me: mated v mated v mated s PRODI distance ourly pr sistency gradier ltitude: ht: ption: <u>Correc</u> Opera rial cor Dozing	ANTITII     3,388     1.125     3,812 LC     volume:     swell facto     UCTION     ve:     oduction:     v descripti     1: 09     6,8	ES Y or: Divisio or: Cat Ha N 200 feet 946.0 LC ion: Com % 300 feet 550 lbs/LCY ecomposed row or	ndbook Y/hr pacted fill or e  ck - 25% Rock 0.750			

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.3890	
Adjusted unit production:	367.99 LCY/hr	
Adjusted fleet production:	367.99 LCY/hr	
-		

Fleet size:	1 Dozer(s)
Unit cost:	\$1.045/LCY

Total job time:	10.36 Hours
Total job cost:	\$3,984

Task description:	Regr	ade Lower Su	սաբ			
Peabody Sage Cr	eek Mine	Perm	it Action:	MT3	Permit/Job#:	C2009087
PROJECT IDEN	<b>FIFICATI</b>	<u>ON</u>				
Task #: 051		State:	Colorado		Abbreviation:	None
Date: $2/14/20$	023	County:	Routt		Filename:	051
User: HR1		· _				
Agency or o	organization	name: DRM	MS			
HOURLY EQUIP	PMENT CO	<u>DST</u>				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574					
Blade Type:	Semi-Unive					
Attachment:	3-shank rip	per				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization 9	<u>%</u>	
Ownership Cost/Ho			\$153.67	NA		
Operating Cost/Ho			\$166.94	100		
Ripper own. Cost/Ho			\$22.74	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	mr.		\$41.30	NA		
Total unit Cost/Hour	: \$384.		\$41.30			
Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA	: \$384.4 r: <b>\$384.</b> 4		\$41.3U			
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume:	: \$384. r: <b>\$384.</b> <b>ANTITIES</b> 2,420					
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor:	: \$384. ir: <b>\$384.</b> <b>ANTITIES</b> 2,420 1.125					
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:	: \$384. ar: <b>\$384.</b> <b>ANTITIES</b> 2,420 1.125 <b>2,723</b> LCY	65				
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated v	: \$384. ar: <b>\$384.</b> <b>ANTITIES</b> 2,420 1.125 <b>2,723</b> LCY volume:	65 	  f Reclamati	ion, Mining & Safet	У	
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:	: \$384. ar: <b>\$384.</b> <b>ANTITIES</b> 2,420 1.125 <b>2,723</b> LCY volume:	65	  f Reclamati		y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated of Source of estimated of	: \$384. ar: \$384. <b>ANTITIES</b> 2,420 1.125 2,723 LCY volume: swell factor:	65 	  f Reclamati		y	
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated v	: \$384. ar: \$384. <b>ANTITIES</b> 2,420 1.125 2,723 LCY volume: swell factor:	65  	  f Reclamati		 y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated source sourc	: \$384. ar: \$384. ANTITIES 2,420 1.125 2,723 LCY volume: swell factor: UCTION	65  	  f Reclamati		y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated source	: \$384. ar: \$384. ar: \$384. antities 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce:	65 Division of Cat Handb	-  f Reclamati ook		y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated v	: \$384. ar: \$384. ANTITIES 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: _	65 Division of Cat Handb 200 feet 946.0 LCY/h	f Reclamati ook		y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated y Source of estimated y Source of estimated y Average push distand Unadjusted hourly pu	: \$384. ar: \$384. ar: \$384. antities 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description	65 Division of Cat Handb 200 feet 946.0 LCY/h	f Reclamati ook	on, Mining & Safet	y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated y Source of estimated y Source of estimated y Source of estimated y Average push distance Unadjusted hourly pu Materials consistency	: \$384. ar: \$384. ar: \$384. antifies 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description nt:0 %	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact	f Reclamati ook	on, Mining & Safet	y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated so Source of estimated so HOURLY PROD Average push distance Unadjusted hourly pr	: \$384. ar: \$384. ar: \$384. antifies 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description nt:0 %	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact	f Reclamati ook	on, Mining & Safet	y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated y Source of estimated y Source of estimated y Source of estimated y Average push distance Unadjusted hourly pu Materials consistency	: \$384. ar: \$384. ar: \$384. antification: 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % :0%	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact	f Reclamati ook	on, Mining & Safet	y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated y Source of estimated y Source of estimated y Source of estimated y Materials consistency Average push gradier Average push gradier Average site altitudes	: \$384. antification: \$384. antification: \$384. antification: \$384. antification: \$2,420 1.125 2,420 1.125 2,420 2,420 2,420 antification: \$200 antification: \$200 antificati	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact feet	-  f Reclamati ook ur ted fill or e: 	on, Mining & Safet	y	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of	: \$384. ar: \$384. ar: \$384. ar: \$384. ar: \$384. 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 6,800  Decon	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact feet lbs/LCY	-  f Reclamati ook ur ted fill or e: 	on, Mining & Safet		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of es	: \$384. ar: \$384. ar: \$384. ar: \$384. ar: \$384. 2,420 1.125 2,723 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 6,800  Decon	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact feet lbs/LCY	f Reclamati ook ted fill or en 25% Rock	on, Mining & Safet		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of es	: \$384. antification in the second state in t	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact feet lbs/LCY mposed rock -	- - f Reclamati ook ur ted fill or es  25% Rock 50	on, Mining & Safet	<u></u>	
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated of Source of estimated of Source of estimated of Source of estimated of Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average push gradier Average site altitude Material weight: Weight description: Job Condition Correct Opera Material con	: \$384. antification in the second state in t	65 Division of Cat Handb 200 feet 946.0 LCY/h : Compact feet lbs/LCY mposed rock - 0.7	 f Reclamati ook ur ted fill or es  25% Rock 50 00		<u>2e</u> 3.) IB))	

Task # 051

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitu	de:	1.000	(CAT HB)
Material Weig	t:	0.868	(CAT HB)
Blade ty	pe:	1.000	(PAT)
Net correction	on:	0.3890	
Adjusted unit production:	36	7.99 LCY/hr	
Adjusted fleet production:	36	7.99 LCY/hr	
	-		

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.045/LCY

Total job time:	<b>7.40</b> Hours
Total job cost:	\$2,846

#### MOTOR GRADER WORK

Task description:	<b>Regrade Area Ditches</b>			
Peabody Sage Cree	k Mine Permit Actio	n: MT3	Per	mit/Job#: <u>C2009087</u>
PROJECT IDENTI	<b>FICATION</b>			
Task #: 052	State: Colora	do	Abbre	eviation: None
Date: $\frac{0.02}{2/14/2023}$				lename: 052
User: HR1				
Agency or org	ganization name: DRMS			
HOURLY EQUIPM	IENT COST			
Basic Machi	ne: CAT 14M		Horsepower:	259
Ripper Attachme			Shift Basis:	1 per day
11			Data Source:	(CRG)
Cast Das als dasses				· · · · ·
Cost Breakdown:		l.	Utilization %	
	nership Cost/Hour:	\$114.80	NA	
	erating Cost/Hour:	\$79.39	100	
	nership Cost/Hour:	\$79.39	NA	
	erating Cost/Hour:	\$0.00	$\frac{NA}{0}$	
	perator Cost/Hour:	\$28.56	NA	
	al Unit Cost/Hour:	\$228.09	1111	
100		φ220.07		
Tota	al Fleet Cost/Hour:	\$228.09		
Sou	rce of estimated acreage: PA	P Table 2.05.3-E2-	6	
HOURLY PRODU	TION			
HOUKLI FRODU		1.75	mnh	
	Average Grader Speed: Selected Application:		mph ling/cleaning (0-3 1	nnh) - 1 75
	Selected Blade Angle:	30	degrees	iipii) 1.75
	Effective Blade Length:	12.10	feet	
Widt	h of blade overlap per pass:	2.00	feet	
	g or ripping width per pass:	10.10	feet	
Unadjust	ed Hourly Unit Production:	2.1424	acres/hou	ır
Job Condition Correction	on Factors	Si	te Altitude: <u>6800</u> f	eet
	Sou	rce		
Altitude Adj:	1.00 (CAT	'HB)		
Job Efficiency:	0.90 (1sh/d			
Net Correction:	0.9000 multip	lier		
	Adjusted Hourly Unit Production	on: 1.9282	acres/Hour	
	Adjusted Hourly Fleet Production		acres/Hour	
JOB TIME AND CO	<u>OST</u>			
Fleet size:	1 Grader(s)	Total job time	. 1.04	Hours
Unit cost: \$1	18.29 per acre	Total job cost	: <b>\$237</b>	_
	18.29 per acre	Total job cost	₽ <u>4</u> 31	

Peabody Sage Cree	ek Mine	Peri	mit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENT	IFICATION					
Task #: 053 Date: 2/14/202 User: HR1		State: County:	Colorado Routt		Abbreviation: Filename:	None 053
	ganization nar	ne: DR	RMS			
HOURLY EQUIPN	MENT COST	<u>[</u>				
Basic Machine: 0	Cat D6T LGP	_				
Horsepower: 2	200					
Blade Type: S	Straight					
Attachment:	3-shank ripper					
	1 per day					
	(CRG)					
Cost Breakdown:			I			
Ownership Cast/II			\$75.02	Utilization %		
Ownership Cost/Hou			\$75.83	NA		
Operating Cost/Hou			\$66.34	100 NA		
Ripper own. Cost/Hou			\$8.37	NA		
Ripper op. Cost/Hou			\$0.00	0		
Operator Cost/Hou	ir:		\$41.30	NA		
Total Fleet Cost/Hour:	NTITIES					
MATERIAL QUAN Initial Volume: _ 24	4					
MATERIAL QUAN Initial Volume: 24 Swell factor: 1.						
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated volume:       27	4 .125 7 LCY blume:			on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       Source of estimated sw	4 .125 7 LCY blume: vell factor:	Division ( Cat Hand		on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated vo       30         HOURLY PRODU       30	4 .125 7 LCY blume: vell factor:	Cat Hand		on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated sw       27         HOURLY PRODU       27         Average push distance       27	4 .125 7 LCY blume: vell factor: (CTION ::50	Cat Hand feet	book	on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated vo       30         HOURLY PRODU       30	4 .125 7 LCY blume: vell factor: (CTION ::50	Cat Hand	book	on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated sw       27         HOURLY PRODU       27         Average push distance       27	4 .125 7 LCY olume: vell factor: CCTION :: 50 duction: 44	Cat Hand feet 4.6 LCY/	book hr	on, Mining & Safety		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated sw       27         HOURLY PRODU       27         Average push distance       27         Unadjusted hourly product       27	4 .125 7 LCY olume: vell factor: (CTION c:50 duction:44 description:	Cat Hand feet 4.6 LCY/ Compa	book hr			
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated vo       30         Source of estimated sw       40         HOURLY PRODU       40         Average push distance       10         Materials consistency of       40         Average push gradient       10	4 .125 7 LCY olume: vell factor: (CTION c:50 duction:44 description: c:0 %	Cat Hand feet 4.6 LCY/ Compa t	book hr			
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Source of estimated vo       27         Source of estimated vo       27         Materials consistency of estimated vo       27         Average push distance       27         Materials consistency of       27         Average push gradient       27         Average push gradient       27         Average push gradient       27	4 .125 7 LCY blume: vell factor: CTION :: 50 duction: 44 description: :: 0 % 6,500 fee 2,650 lbs	Cat Hand feet 4.6 LCY/ Compa t t	book hr	mbankment 0.9		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Average push distance       27         Materials consistency of       27         Average push distance       27         Materials consistency of       27         Average push gradient       27         Average site altitude:       27         Material weight:       27	4 .125 7 LCY blume: vell factor: (CTION c:50 duction:44 description: ::0 % 6,500 fee 2,650 lbs Decompo	Cat Hand feet 4.6 LCY/ Compa t t	book hr cted fill or en	mbankment 0.9		
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       Source of estimated vo         Source of estimated sw       HOURLY PRODU         Average push distance       Unadjusted hourly prod         Materials consistency of       Average push gradient         Average push gradient       Average site altitude:         Material weight:       Weight description:         Job Condition Correcti       Job Condition Correcti	4 .125 7 LCY blume: vell factor: (CTION c:50 duction:44 description: ::0 % 6,500 fee 2,650 lbs Decompo	Cat Hand feet 4.6 LCY/ Compa t /LCY osed rock	book hr cted fill or en			
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       Source of estimated vo         Source of estimated sw       MOURLY PRODU         Average push distance       Materials consistency of         Average push gradient       Average site altitude:         Material weight:       Weight description:         Job Condition Correcti       Operate	4 .125 7 LCY blume: vell factor: (CTION c:50 duction:44 description: ::0 % 6,500 fee 2,650 lbs Decompo ion Factor or Skill:	<u>feet</u> 4.6 LCY/ <u>Compa</u> t /LCY osed rock	book hr cted fill or en - 25% Rock.			
MATERIAL QUAN         Initial Volume:       24         Swell factor:       1.         Loose volume:       27         Source of estimated vo       27         Average push distance       27         Materials consistency of       27         Average push distance       27         Materials consistency of       27         Material weight:       27         Weight description:       27         Job Condition Correcti       27	4 .125 7 LCY blume: vell factor: (CTION c:50 duction:44 description: ::6,500 fee 6,500 fee 6,500 lbs 0recompo ion Factor or Skill: sistency:	Cat Hand feet 4.6 LCY/ Compa t /LCY /sed rock 0. 0.	book hr cted fill or en - 25% Rock, 900			

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.3735	
Adjusted unit production:	166.06 LCY/hr	
Adjusted fleet production:	166.06 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.155/LCY

Total job time:	0.16 Hours
Total job cost:	\$31

Peabody Sage Creek M	line Peri	mit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTIFIC	CATION				
Task #: 054	State:	Colorado		Abbreviation:	None
Date: 2/14/2023	County:	Routt		Filename:	054
User: HR1					
Agency or organiz	zation name: DR	RMS			
HOURLY EQUIPMEN	NT COST				
Basic Machine: Cat I	D6T LGP				
Horsepower: 200					
Blade Type: Straig	ght				
	ank ripper				
Shift Basis: 1 per					
Data Source: (CRC	G)				
Cost Breakdown:		1			
Ourmonshire Coast /II		¢75.02	<u>Utilization %</u>		
Ownership Cost/Hour:		\$75.83	NA 100		
Operating Cost/Hour:		\$66.34 \$8.37	100 NA		
Ripper own. Cost/Hour:		\$8.37	<u>NA</u> 0		
Operator Cost/Hour:		\$41.30	NA		
Fotal Fleet Cost/Hour:	<u>\$191.84</u> TIES				
– MATERIAL QUANTI	TIES				
MATERIAL QUANTIInitial Volume:16Swell factor:1.000Loose volume:16 LC	TIES Y	  of Reclamati	on. Mining & Safety		
	TIES Y e:Division @		on, Mining & Safety		
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f	TIES Y e: Division of factor: Cat Hand		on, Mining & Safety		
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume	TIES Y e: Division of factor: Cat Hand		on, Mining & Safety		
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f	TIES EY e: Division of factor: Cat Hand		on, Mining & Safety		
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI	TIES EY e: Division of factor: Cat Hand ION 50 feet	book	on, Mining & Safety		
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:	TIES  Y e: Division of factor: Cat Hand ION ion: 50 feet ion: 444.6 LCY/	book hr	on, Mining & Safety		
MATERIAL QUANTT         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency description	TIES TIES TIES TY The Division of Cat Hand TON Tion: 50 feet Tion: 444.6 LCY/ Tiption: Partly c	book hr			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti	TIES  Y e: Division of factor: Cat Hand ION ion: 50 feet ion: 444.6 LCY/	book hr			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descr         Average push gradient:	TIES TIES TIES TY Table Terms The second sec	book hr			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descr         Average push gradient:         Average site altitude:	TIES         EY         e:       Division of Cat Hand         Factor:       Cat Hand         ION         ion:       50 feet         ion:       444.6 LCY/         ription:       Partly c         0 %       6,500 feet	book hr consolidated			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency description:         Average site altitude:         Material weight:         Weight description:         Lob Condition Correction F	TIES         EY         e:       Division of Cat Hand         Factor:       Cat Hand         ION         ion:       50 feet         ion:       444.6 LCY/         ription:       Partly c         0 %       6,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Factor	book hr consolidated			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descer         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Lob Condition Correction F	TIES $\overline{TIES}$ e:       Division of Cat Hand $\overline{factor:}$ Cat Hand         ION         ion: $50$ feet         ion: $444.6$ LCY/         ription:       Partly c         0 %       6,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       0. $\overline{factor}$ 0.	book hr consolidated	stockpile 1.1		
MATERIAL QUANTT         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descurve         Average push gradient:         Average site altitude:         Waterial weight:         Material consistency         Material weight:         Material description:         Material consistency	TIES         EY         e:       Division of Cat Hand         Eactor:       Cat Hand         ION         ion:       50 feet         ion:       444.6 LCY/         ription:       Partly c         0 %       6,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       0.         %       0.         6,500 feet       0.         1.       0.	book hr consolidated			
MATERIAL QUANTI         Initial Volume:       16         Swell factor:       1.000         Loose volume:       16 LC         Source of estimated volume         Source of estimated volume         Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descer         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Lob Condition Correction F	TIES           CY           e:         Division of Cat Hand           Cator:         Cat Hand           ION         50 feet           ion:         444.6 LCY/           ription:         Partly c           0 %         6,500 feet           2,550 lbs/LCY         Earth - Dry packed           Factor         Kill:         0.           cy:         1.         1.	book hr consolidated	stockpile 1.1 <u>Source</u> (AB.AVG.)		

cy: 0.830	(1 SHIFT/DAY)				
ile: 0.800	(FND-RF)				
ent: 1.000	(CAT HB)				
de: 1.000	(CAT HB)				
ht: 0.902	(CAT HB)				
pe: 1.000	(PAT)				
on: 0.4744					
210.92 LCY/hr					
Adjusted fleet production: <b>210.92</b> LCY/hr					
	Ile:         0.800           nt:         1.000           de:         1.000           ht:         0.902           pe:         1.000           on:         0.4744           210.92 LCY/hr				

Fleet size:	1 Dozer(s)
Unit cost:	\$0.910/LCY
Total job time:	0 08 Hours

I otal job time:	<b>0.08</b> Hours
Total job cost:	\$15

Page 1 of 2

# SCRAPER TEAM WORK

Site: Peabody Sage Cro	eek Mine	Permit Ac	tion: <u>N</u>	MT3	Perr	nit/Job#:	C2009	087
PROJECT IDEN	<b>TIFICATION</b>							
Task #: 060	S	tate: Colo	orado		Abbrev	viation:	None	
Date: 2/14/20		inty: Rou					060	
User: HR1								
Agency or o	organization name:	DRMS						
HOURLY EQUIP	MENT			COSTSI	nift basis: <u>1 per d</u>	<u>ay</u>		
		Eq	uipment	Description				
		craper: C	at 637G	w/push-pull				
0			at D8T -	8SU				
Suppor	rt Equipment -Loac Dumr-	d Area: N o Area: N						
Road Mai	intenance – Motor C		AT 14M	[				
	-Water	Truck: W	ater Tar	nker, 10,000 Ga	1.			
Cost Breakdown:	Scraper Wor	lt Toom		Support Equip	mont	Moint	anonaal	Equipment
Cost Breakdown.	Scraper	Dozer		Load Area	Dump Area	Motor G		Water T
%Utilization-machine:	100	1	100	NA	NA		25	
Ownership cost/hour:	\$287.19	\$124	.85	NA	NA	\$1	14.80	\$
Operating cost/hour:	\$277.83	\$97	.63	NA	NA	\$	19.85	\$.
%Utilization-ripper:	NA	]	NA	NA	NA		NA	
Ripper own. cost/hour:	NA	\$0	.00	NA	NA		\$0.00	:
Ripper op. cost/hour:	NA	\$0	.00	NA	NA		\$0.00	:
Operator cost/hour:	\$30.90	\$41	.30	NA	NA	\$	28.56	\$2
Unit Subtotals:	\$595.92	\$263	.78	NA	NA	\$1	63.20	\$1
Number of Units:	2		1	0	0		1	
Group Subtotals:	Work:	\$1,455.62	2	Support:	\$0.00	Ν	Maint:	\$308.
Total work team cost	/hour: <u><b>\$1,764.24</b></u>							
MATERIAL QUA	NTITIES							
Initial volume: Loose volume:	18,230 <b>20,509</b>	CC LC		Swell fact	or: <u>1.125</u>			
	rce of estimated vol				Mining & Safety			
Source of	of estimated swell f	actor: Cal	t Handbo	JOK				
HOURLY PRODU	UCTION							
				Scraper Bo	owl (volume) Basi	<u>s:</u>		
Material weight:	2,550 lbs/LCY			Struck Y	Volume: 24.00		LC	
Material description:	Earth - Dry packe 81,600 pounds	ed		Heaped Y Average Y			LC	
Rated Payload:							10	

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	450.00	-2.20	4.00	1.80	2939	0.15

Haul Time: **1.26** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	450.00	2.20	4.00	6.20	2638	0.35
2	2550.00	2.10	4.00	6.10	2638	0.97
3	300.00	10.00	4.00	14.00	1073	0.09

Return Time:	1.41	minutes
Total Scraper team cycle time:	4.27	minutes
Adjusted for job conditions:	676.44	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	676.44	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	676.44	LCY/Hour
Unadjusted unit production/hour: 814.99 LCY/Hour		

Fleet size:	1	Team(s)	Total job time:	30.32	Hours
Unit cost:	\$2.608	/LCY	Total job cost:	\$53,489	

# SCRAPER TEAM WORK

Site: Peabody Sage Cre		Permit	Action:	MT3	Perm	nit/Job#: <u>C20</u>	09087
PROJECT IDENT           Task #:         061           Date:         2/14/20           User:         HR1			Colorado Routt		Abbrev File	viation: <u>None</u> ename: <u>061</u>	<u>}</u>
Agency or o	rganization name	: DRM	S				
HOURLY EQUIP	MENT_			COSTS	hift basis: <u>1 per da</u>	ay	
				ent Description			
		Scraper:		G w/push-pull			
Suppor	t Equipment -Loa	-Dozer:	Cat D8 NA	1 - 850			
Suppor		np Area:	NA				
Road Mai	ntenance - Motor		CAT 14				
	-Wate	r Truck:	Water 7	Fanker, 10,000 Ga	al.		
Cost Breakdown:	Scraper Wo	ork Team		Support Equi	oment	Maintenand	e Equipmen
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	
%Utilization-machine:	100		100	NA	NA	25	5
Ownership cost/hour:	\$287.19	\$	124.85	NA	NA	\$114.80	) §
Operating cost/hour:	\$277.83		\$97.63	NA	NA	\$19.85	5 \$
%Utilization-ripper:	NA		NA	NA	NA	NA	<u> </u>
Ripper own. cost/hour:	NA		\$0.00	NA	NA	\$0.00	)
Ripper op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	)
Operator cost/hour:	\$30.90		\$41.30	NA	NA	\$28.56	5 \$
Unit Subtotals:	\$595.92	\$	263.78	NA	NA	\$163.20	) \$1
Number of Units:	2		1	0	0	1	L
Group Subtotals:	Work:	\$1,45	5.62	Support:	\$0.00	Maint	: \$308
Total work team cost							
Initial volume: Loose volume:	<u>25,490</u> <b>28,676</b>		CCY LCY	Swell fact	tor: <u>1.125</u>		
	ce of estimated ve f estimated swell		Division Cat Hanc	of Reclamation, I	Mining & Safety		
HOURLY PRODU	JCTION						
				Scraper B	owl (volume) Basi	<u>s:</u>	
Material weight:	2,550 lbs/LCY				Volume: 24.00		LCY
Material description: Rated Payload:	Earth - Dry pack 81,600 pounds	ted		Heaped Average	Volume: 34.00 Volume: 29.00		LCY LCY
Data d Davia a d.				1 110000	Values 20.00		LOV

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	750.00	-5.30	4.00	-1.30	2972	0.32

Haul Time: **1.43** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity (fpm)	Travel Time		
		(%)	(%)	(%)		(min)		
1	750.00	5.30	4.00	9.30	1711	0.51		
2	2550.00	2.10	4.00	6.10	2638	1.06		
3	300.00	10.00	4.00	14.00	1073	0.09		

Return Time:	1.66	minutes
Total Scraper team cycle time:	4.69	minutes
Adjusted for job conditions:	615.86	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	615.86	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	615.86	LCY/Hour
Unadjusted unit production/hour: 742.00 LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	46.56	Hours
Unit cost:	\$2.865	/LCY	Total job cost:	\$82,148	

Page 1 of 2

# SCRAPER TEAM WORK

Site: Peabody Sage Cro	eek Mine	Permit	Action:	MT3	Perm	nit/Job#:	C2009	087
PROJECT IDENT	<b>TIFICATION</b>							
Task #: 062	S	tate: C	Colorado		Abbrev	viation: N	None	
Date: 2/14/20	Cou	nty: R	Routt		File	ename: 0	62	
User: HR1	<u> </u>							
Agency or o	organization name:	DRM	S					
HOURLY EQUIP	MENT_			COSTSh	ift basis: <u>1 per da</u>	ay		
			Equipme	ent Description				
		craper:	Cat 637	G w/push-pull				
		Dozer:	Cat D8	Г - 8SU				
Suppor	rt Equipment -Load Dump-		NA NA					
Road Mai	intenance – Motor C		CAT 14	M				
	-Water	Truck:	Water 7	anker, 10,000 Ga	l.			
Cost Ducal domes	Courses West	I. T		Commont Errorin		Mainta		<b>F</b>
Cost Breakdown:	Scraper Wor Scraper	<u>k Team</u> Doz	er	Support Equip Load Area	Dump Area	Motor Gra		Equipmer Water
0/TT:11 .1 11	-				_			
%Utilization-machine:	100	<u>ф</u>	100	NA	NA	¢11	25	
Ownership cost/hour:	\$287.19		124.85	NA	NA		4.80	
Operating cost/hour:	\$277.83	3	\$97.63	NA	NA	\$1	9.85	
%Utilization-ripper:	NA		NA ¢0.00	NA	NA	¢	NA	
Ripper own. cost/hour: Ripper op. cost/hour:	NA NA		\$0.00 \$0.00	NA NA	NA NA	-	0.00 0.00	
Operator cost/hour:	\$30.90		\$41.30	NA	NA		8.56	
Unit Subtotals:	\$595.92		263.78	NA	NA		.8.30 53.20	\$
Number of Units:	\$393.92	Φ2	1	0	0	\$10	1	¢
Group Subtotals:	Work:	\$1,45		Support:	\$0.00	М	aint:	\$308
*		\$1,45	5.02	Support.	<b>\$0.00</b>	101	ann.	\$300
Total work team cost.	nour: <u>\$1,/64.24</u>							
MATERIAL QUA	NTITIES							
Initial volume:	15,810		CCY	Swell facto	or: 1.125			
Loose volume:	17,786		LCY					
Sour	rce of estimated vol	ume:	Division	of Reclamation, N	Aining & Safety			
Source of	of estimated swell fa	actor:	Cat Hand	lbook				
HOURLY PRODU	TON							
				0				
					wl (volume) Basi	<u>s:</u>		
Material weight:	2,550 lbs/LCY	4		Struck V				CY
Material description: Earth - Dry packed				Heaped V Average V				CY CY
Rated Payload:	81,600 pounds			A vorana V	$/ \alpha m e / \alpha m e$			

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	-6.67	4.00	-2.67	2972	0.32
2	1050.00	0.00	4.00	4.00	2394	0.15

Haul Time: 0.47 minutes

#### **Return Route:**

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1050.00	0.00	4.00	4.00	2910	0.52
2	750.00	6.67	4.00	10.67	1434	0.31

Return Time: **0.83** minutes

Total Scraper team cycle time:	2.90	minutes
Adjusted for job conditions:	996.00	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	996.00	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	996.00	LCY/Hour

Unadjusted unit production/hour: 1,200.00 LCY/Hour Optimal Number of Scrapers per push dozer:

#### JOB TIME AND COST

Fleet size: <u>1</u> Team(s)

Unit cost: \$1.771 /LCY

Total job time:	17.86	Hours
Total job cost:	\$31,505	

Page 1 of 2

# SCRAPER TEAM WORK

Site: Peabody Sage Cre	eek Mine	Permit	Action:	MT3	Perr	nit/Job#: <u>C20</u>	09087
PROJECT IDENT	<b>TIFICATION</b>						
Task #: 063	S	State: C	olorado		Abbrev	viation: None	2
Date: 2/14/20	)23 Cor	unty: R	outt		File	ename: 063	
User: HR1							
Agency or o	organization name:	DRMS	5				
HOURLY EQUIP	MENT			COSTSI	nift basis: <u>1 per da</u>	ay	
			Equipme	ent Description			
		Scraper:	Cat 637	G w/push-pull			
		-Dozer:	Cat D8	Γ - 8SU			
Suppo	rt Equipment -Loa Dum-	d Area:	NA NA				
Road Ma	intenance – Motor		CAT 14	M			
	-Water	Truck:	Water T	anker, 10,000 Ga	1.		
<u>Cost Breakdown</u> :	Scraper Wo	rk Team		Support Equip			ce Equipmen
	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	Water T
%Utilization-machine:	100		100	NA	NA	25	5
Ownership cost/hour:	\$287.19	\$1	24.85	NA	NA	\$114.80	) \$
Operating cost/hour:	\$277.83	\$	697.63	NA	NA	\$19.85	5 \$
%Utilization-ripper:	NA		NA	NA	NA	NA	1
Ripper own. cost/hour:	NA		\$0.00	NA	NA	\$0.00	)
Ripper op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	)
Operator cost/hour:	\$30.90	\$	641.30	NA	NA	\$28.50	5 \$
Unit Subtotals:	\$595.92	\$2	263.78	NA	NA	\$163.20	) \$1
Number of Units:	2		1	0	0	]	1
Group Subtotals:	Work:	\$1,455	5.62	Support:	\$0.00	Maint	: \$308.
Total work team cost	/hour: <b>\$1,764.24</b>		i.				
MATERIAL QUA	NTITIES						
Initial volume:	22,759		CCY	Swell fact	or: 1.125		
Loose volume:	25,604	]	LCY				
	rce of estimated vo of estimated swell f		Division Cat Hand	of Reclamation, N lbook	Mining & Safety		
HOURLY PROD	UCTION						
				Scraper Bo	owl (volume) Basi	s:	
Material weight:	2,550 lbs/LCY				Volume: 24.00		LCY
Material description:	Earth - Dry packe	ed					LCY
Rated Payload:	81,600 pounds			·			LCY
Kateu I ayloau.	01,000 poundo			11, orașe	, oranic. 27.00		201

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-6.67	4.00	-2.67	2972	0.23
2	2500.00	-2.00	4.00	2.00	2939	0.85
3	1000.00	0.00	4.00	4.00	2394	0.13

Haul Time: **1.21** minutes

#### **Return Route:**

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity (fpm)	Travel Time
		(%)	(%)	(%)		(min)
1	1000.00	0.00	4.00	4.00	2910	0.51
2	2500.00	2.00	4.00	6.00	2638	0.75
3	500.00	6.67	4.00	10.67	1434	0.18

Return Time:	1.44	minutes
Total Scraper team cycle time:	4.25	minutes
Adjusted for job conditions:	679.62	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	679.62	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	679.62	LCY/Hour
Unadjusted unit production/hour: 818.82 LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	37.67	Hours
Unit cost:	\$2.596	/LCY	Total job cost:	\$66,465	

# SCRAPER TEAM WORK

Site: Peabody Sage Cre	eek Mine	Permit Action:	MT3	Perr	nit/Job#: <u>C200</u>	9087
PROJECT IDEN	<b>TIFICATION</b>					
Task #: 064	S	State: Colorado		Abbrev	viation: None	
Date: 2/14/20		unty: Routt			ename: 064	
User: HR1		-				
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT_		COSTS	hift basis: <u>1 per d</u>	ay	
			ent Description			
			/G w/push-pull T - 8SU			
Suppo	rt Equipment -Loa		1 - 050			
	-Dumj	p Area: Cat D8'	T - 8SU			
Road Ma	intenance – Motor (					
	-Water	Truck: Water	Fanker, 10,000 Ga	al.		
Cost Breakdown:	Scraper Wo	rk Team	Support Equi	oment	Maintenance	e Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Tri
%Utilization-machine:	100	100	NA	25	25	
Ownership cost/hour:	\$287.19	\$124.85	NA	\$124.85	\$114.80	\$9
Operating cost/hour:	\$277.83	\$97.63	NA	\$24.41	\$19.85	\$32
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0
Operator cost/hour:	\$30.90	\$41.30	NA	\$41.30	\$28.56	\$2
Unit Subtotals:	\$595.92	\$263.78	NA	\$190.56	\$163.20	\$14
Number of Units:	2	1	0	1	1	
Group Subtotals:	Work:	\$1,455.62	Support:	\$190.56	Maint:	\$308.62
Total work team cost	/hour: <b>\$1,954.80</b>					
MATERIAL QUA	NTITIES					
Initial volume:	11,454	CCY	Swell fact	tor: 1.125		
Loose volume:	12,886	LCY				
Sou	rce of estimated vo	olume: Division	of Reclamation, 1	Mining & Safety		
Source of	of estimated swell f					
HOURLY PROD	UCTION					
			Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,550 lbs/LCY		Struck	Volume: 24.00	Ι	LCY
Material description:	Earth - Dry packe	ed	Heaped	Volume: 34.00	Ι	LCY
Rated Payload:	81,600 pounds		Average			LCY GV
Payload Capacity:	32.00 LCY		Adjusted C	Capacity: <b>29.00</b>	Ĭ	LCY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3728.00	2.00	4.00	6.00	1477	2.60

Haul Time: 2.60 minutes

#### **Return Route:**

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3728.00	-2.00	4.00	2.00	2960	1.39
				Return Time:	1.39	minutes
			Total Scrap	er team cycle time:	5.59	minutes
			Adjusted	for job conditions:	516.71	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scrap	er team (unit)	hourly production:	516.71	LCY/Hour
	Adjusted m	nultiple scrape	er team (fleet)	hourly production:	516.71	LCY/Hour
		duction/hour:	622.54	LCY/Hour		

Fleet size:	1	Team(s)	Total job time:	24.94	Hours
Unit cost:	\$3.783	/LCY	Total job cost:	\$48,749	

# SCRAPER TEAM WORK

Site: Peabody Sage Cro	eek Mine	Permit Action:	MT3	Perr	mit/Job#: <u>C2009</u>	9087
PROJECT IDENT	<b>TIFICATION</b>					
Task #: 065	S	State: Colorado		Abbrev	viation: None	
Date: 2/14/20	023 Cor	unty: Routt		Fil	ename: 065	
User: HR1						
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	hift basis: <u>1 per d</u>	ay	
			ent Description			
		Craper: Cat 637 Dozer: Cat D8	G w/push-pull			
Suppo	rt Equipment -Loa		1 - 830			
	-Dum	p Area: Cat D8'				
Road Ma	intenance – Motor			1		
	-Water	Truck: water	Fanker, 10,000 Ga	11.		
Cost Breakdown:	Scraper Wo	rk Team	Support Equi	pment	Maintenance	Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Ti
%Utilization-machine:	100	100	NA	25	25	
Ownership cost/hour:	\$287.19	\$124.85	NA	\$124.85	\$114.80	\$9
Operating cost/hour:	\$277.83	\$97.63	NA	\$24.41	\$19.85	\$3
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$
Operator cost/hour:	\$30.90	\$41.30	NA	\$41.30	\$28.56	\$2
Unit Subtotals:	\$595.92	\$263.78	NA	\$190.56	\$163.20	\$14
Number of Units:	2	1	0	1	1	
Group Subtotals:	Work:	\$1,455.62	Support:	\$190.56	Maint:	\$308.6
Total work team cost	/hour: <b>\$1,954.80</b>					
MATERIAL QUA	NTITIFS					
Initial volume:	7,743	CCY	Swell fac	tor: 1.125		
Loose volume:	8,711	LCY				
Sou	rce of estimated vo	dume: Division	of Reclamation, 1	Mining & Safety		
	of estimated swell f					
HOURLY PROD	<u>UCTION</u>					
			Scraper B	owl (volume) Basi	<u>is:</u>	
Material weight:	2,550 lbs/LCY		Struck	Volume: 24.00	L	CY
Material description:	Earth - Dry packe	ed	-	Volume: 34.00		CY
Rated Payload:	81,600 pounds		Average	Volume: 29.00	T	CY
Payload Capacity:	32.00 LCY		Adjusted C			CY
<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3753.00	-3.60	4.00	0.40	2965	1.45

Haul Time: **1.45** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3753.00	3.60	4.00	7.60	1931	2.03
				Return Time:	2.03	minutes
			Total Scrape	er team cycle time:	5.08	minutes
			Adjusted	for job conditions:	568.58	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjusted	l single scra	per team (unit)	hourly production:	568.58	LCY/Hour
	Adjusted m	ultiple scrap	per team (fleet)	hourly production:	568.58	LCY/Hour
Optima	Unadjusted unit proo al Number of Scrapers pe			_ LCY/Hour		
JOB TI	IME AND COST					
Fleet	t size: 1	Team(s)	7	Fotal job time:	15.32	Hours

Unit cost: \$3.438 /LCY

Total job cost: **\$29,948** 

# SCRAPER TEAM WORK

Site: Peabody Sage Cree	ek Mine	Permit	Action:	MT3	Perr	nit/Job#: <u>C20</u>	09087
PROJECT IDENT	<b>IFICATION</b>						
Task #: 066	Si	tate: (	Colorado		Abbrev	viation: None	<u>,</u>
Date: $2/14/202$ User: HR1	23 Cou	nty: I	Routt		File	ename: 066	
	ganization name:	DRM	c				
HOURLY EQUIP	<u>MENT</u>			COSTSI	nift basis: <u>1 per d</u>	<u>ay</u>	
	C.			ent Description			
		craper: Dozer:	Cat 637 Cat D8	' <u>G w/push-pull</u> Γ - 8SU			
Suppor	t Equipment -Load		NA				
Road Mair	-Dump ntenance –Motor C		Cat D8' CAT 14				
	-Water			Tanker, 10,000 Ga	1.		
Cost Breakdown:	Scraper Wor Scraper	k Team Doz	zer	Support Equip Load Area	Dump Area	Maintenance Motor Grader	ce Equipment Water Trucl
%Utilization-machine:	100		100		25	25	
Ownership cost/hour:	\$287.19	\$	124.85	NA NA	\$124.85	\$114.80	
Operating cost/hour:	\$287.19		\$97.63	NA	\$124.83	\$114.80	
%Utilization-ripper:	\$277.83 NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		\$0.00	NA	\$0.00	\$0.00	
Ripper op. cost/hour:	NA		\$0.00	NA	\$0.00	\$0.00	
Operator cost/hour:	\$30.90		\$41.30	NA	\$41.30	\$28.56	5 \$21.
Unit Subtotals:	\$595.92	\$	263.78	NA	\$190.56	\$163.20	) \$145.4
Number of Units:	2		1	0	1	1	
Group Subtotals:	Work:	\$1,45	5.62	Support:	\$190.56	Maint:	: \$308.62
Total work team cost/l	hour: <b>\$1,954.80</b>						
MATERIAL QUA	<u>NTITIES</u>						
Initial volume: Loose volume:	3,452 <b>3,884</b>		CCY LCY	Swell fact	or: <u>1.125</u>		
-	,						
	ce of estimated vol f estimated swell fa		Division Cat Hand	of Reclamation, N	Mining & Safety		
			Cut Huik				
HOURLY PRODU	<b>CTION</b>						
				Scraper Bo	owl (volume) Basi	<u>s:</u>	
Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00		LCY
material weight.							
Material description:	Earth - Dry packe 81,600 pounds	d		Heaped Y Average Y			LCY LCY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6800 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: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3560.00	-2.90	4.00	1.10	2952	1.41

Haul Time: **1.41** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3560.00	2.90	4.00	6.90	2240	1.71
				Return Time:	1.71	minutes
			Total Scrap	er team cycle time:	4.72	minutes
			Adjusted	for job conditions:	611.95	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	611.95	LCY/Hour
	Adjusted n	nultiple scrap	per team (fleet)	hourly production:	611.95	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	IME AND COST					
Flee	t size: 1	Team(s)		Fotal job time:	6.35	Hours

Unit cost: \$3.194 /LCY

Total job cost: \_\_\_\_\_\_\$12,405

## BULLDOZER WORK

Task description: Rep	place Topsoil on COV11,	<u>CCU31, CCU47, CCU5</u>	<u>8, CCU67, CCU84</u>	,
Peabody Sage Creek Mine	Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTIFICAT	ION			
Task #: 068	State: Colorado		Abbreviation:	None
Date: $\frac{2}{14/2023}$	County: Routt		Filename:	068
User: HR1	County. Koutt		Thendine.	000
Agency or organization	n name: DRMS			
HOURLY EQUIPMENT C	'OST			
Basic Machine: Cat D10T				
Horsepower: 574	- 1050			
Blade Type: Semi-Uni	versal			
Attachment: 3-shank ri				
Shift Basis: 1 per day	ppoi			
Data Source: (CRG)				
Cost Breakdown:		TT.11 .1		
	¢1.50 -5	<u>Utilization %</u>		
Ownership Cost/Hour:	\$153.67	NA		
Operating Cost/Hour:	\$166.94	100		
Ripper own. Cost/Hour:	\$22.74	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
	1.65			
Total unit Cost/Hour: \$384				
Total Fleet Cost/Hour: \$384	1.05			
<b>MATERIAL QUANTITIE</b>	<u>S</u>			
Initial Volume: 2,258				
Swell factor: 1.125	,			
Loose volume: 2,540 LCY				
Source of estimated volume:	Division of Reclamati	on. Mining & Safety		
Source of estimated swell factor		, <u>8</u> ,		
HOURLY PRODUCTION				
<u>HOURLI I RODUCTION</u>				
Average push distance:	200 feet			
Unadjusted hourly production:	946.0 LCY/hr			
5 F				
Materials consistency description	on: Compacted fill or en	mbankment 0.9		
Average push gradient: 0 %				
Average site altitude: <u>6,80</u>	0 feet			
Matanial and alternation of a				
Material weight: 2,55	0 lbs/LCY			
Weight description: Eart	h - Dry packed			
Job Condition Correction Factor	r	Source		
		Source (AVG)		
Operator Skill:	0.750	(AVG.)		
Material consistency:	0.900	(CAT HB))		
Dozing method:	1.000	(GEN.)		
Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4043	
Adjusted unit production: 38	32.47 LCY/hr	
Adjusted fleet production: 38	32.47 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.006/LCY

Total job time:	6.64 Hours
Total job cost:	\$2,555

## BULLDOZER WORK

Task description:	Repla	ace Topsoil	on Opper St	ump		
Peabody Sage Cre	ek Mine	Peri	nit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENT	TIFICATIO	<u>ON</u>				
Task #: 069		State:	Colorado		Abbreviation:	None
Date: $\frac{2}{14/20}$	23	County:	Routt		Filename:	069
User: $HR1$		county.	Rout		- I nename.	007
Agency or o	rganization	name: DR	MS			
HOURLY EQUIP	MENT CO	<u>DST</u>				
	Cat D10T -	10SU				
Horsepower:	574					
Blade Type:	Semi-Unive					
Attachment:	3-shank rip	per				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
			<b>.</b>	Utilization %		
Ownership Cost/Hou			\$153.67	NA		
Operating Cost/Hou			\$166.94	100		
	1r'		\$22.74	NA		
Ripper own. Cost/Hou				0		
Ripper op. Cost/Hor	ur:		\$0.00	0		
Ripper op. Cost/Hou Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour	ur: ur: \$384.0 \$ <b>384.0</b>		\$0.00	0NA		
Ripper op. Cost/Hou Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2	ur: ur: \$384.0 \$384.0 <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b> <b>\$384.0</b>					
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor:	ur: ur: :: \$384.0 \$384.0 NTITIES					
Ripper op. Cost/Hou Operator Cost/Hou Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated sy HOURLY PRODU	ur: ur: \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384	65 Division o Cat Hand 200 feet	\$41.30			
Ripper op. Cost/Hou Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU	ur: ur: \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384	65 Division of Cat Hand 200 feet 946.0 LCY/	\$41.30 	NA		
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pro	ur: ur: \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$380.0 \$2,558 \$0,540 LCY \$00	65 Division of Cat Hand 200 feet 946.0 LCY/	\$41.30 	 on, Mining & Safety		
Ripper op. Cost/Hot         Operator Cost/Hot         Total unit Cost/Hour:         Total Fleet Cost/Hour         MATERIAL QUA         Initial Volume:       2         Swell factor:       1         Loose volume:       2         Source of estimated v         Source of estimated sv         HOURLY PRODU         Average push distance         Unadjusted hourly pro	ur: ur: \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$384.0 \$380.0 \$2,558 \$0,540 LCY \$00	65	\$41.30 	 on, Mining & Safety		
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency	ur:	65	\$41.30 	 on, Mining & Safety		
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour <b>MATERIAL QUA</b> Initial Volume:2 Swell factor:1 Loose volume:2 Source of estimated v Source of estimated sv <b>HOURLY PRODU</b> Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average push gradien Average site altitude:	ur:	65	\$41.30	 on, Mining & Safety		
Ripper op. Cost/Hot Operator Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct	ur:       \$384.0         ur:       \$384.0 <b>NTITIES</b> \$384.0 <b>NTITIES</b> \$2,258         .125       \$2,540 LCY         olume:       well factor:         well factor: $0$ oduction: $0$ oduction: $0$ $0$ $6,800$ $2,550$ Earth         tion Factor $100$	65 Division of Cat Hand 200 feet 946.0 LCY/ : Compar feet lbs/LCY - Dry packed	\$41.30			
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera	ur:       \$384.0         ur:       \$384.0 <b>NTITIES</b> $2,258$ .125 $2,540$ LCY         olume:         well factor:         D         D $2,550$ $2,550$ Earth         tion Factor         tion Skill:	65 Division of Cat Hand 200 feet 946.0 LCY/ : Compar feet lbs/LCY - Dry packed 0.	\$41.30	on, Mining & Safety on, Mining & Safety mbankment 0.9		
Ripper op. Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con	ur:       \$384.0         ur:       \$384.0 <b>NTITIES</b> $2,258$ .125 $2,540$ LCY         olume:         well factor: <b>DCTION</b> e:         oduction:         description         t: $0$ % $6,800$ $2,550$ Earth         tion Factor         tor Skill:         sistency:	65 Division of Cat Hand 200 feet 946.0 LCY/ :Compacient feet lbs/LCY - Dry packed 0. 0. 0.	\$41.30  \$41.30  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		3))	
Ripper op. Cost/Hot Operator Cost/Hot Operator Cost/Hot Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con Dozing	ur:       \$384.0         ur:       \$384.0 <b>NTITIES</b> $2,258$ .125 $2,540$ LCY         olume:         well factor:         D         D $2,550$ $2,550$ Earth         tion Factor         tion Skill:	65 Division of Cat Hand 200 feet 946.0 LCY/ :Compar feet lbs/LCY - Dry packed 0. 0. 1.	\$41.30	on, Mining & Safety on, Mining & Safety mbankment 0.9	3))	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4043	
Adjusted unit production: 38	32.47 LCY/hr	
Adjusted fleet production: 38	32.47 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.006/LCY

Total job time:	<b>6.64</b> Hours
Total job cost:	\$2,555

Page 1 of 2

## BULLDOZER WORK

Task description:	<b>Replace Topsoil</b>	on Lower Su	ump		
Peabody Sage Creek	Mine Per	mit Action:	MT3	Permit/Job#:	C2009087
PROJECT IDENTI	FICATION				
Task #:     070       Date:     2/14/2023       User:     HR1	State:	Colorado Routt		Abbreviation: Filename:	None 070
Agency or orga	anization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
	at D10T - 10SU				
Horsepower: 57					
	mi-Universal				
	shank ripper				
	per day				
Data Source: (C	(RG)				
Cost Breakdown:					
<u></u>			Utilization %		
Ownership Cost/Hour:		\$153.67	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$22.74	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
•					
MATERIAL QUAN' Initial Volume: <u>1,6</u> Swell factor: 1.12	13				
	15 LCY				
Source of estimated volu Source of estimated swe			on, Mining & Safety		
		IUUUK			
HOURLY PRODUC					
Average push distance: Unadjusted hourly produ	200 feet action: 946.0 LCY	/hr			
Materials consistency de	escription: <u>Compa</u>	icted fill or en	mbankment 0.9		
Average push gradient: Average site altitude:	0 % 6,800 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packet	d		_	
Job Condition Correction		u	Source		
<u>Operator</u>		.750	(AVG.)		
Material consis		.900	(CAT HB))		
Dozing m		.000	(GEN.)		
		.000	(AVG.)		
V 181	10mmy. 1	.000	(AVU.)		

Task # 070

cy: 0.830	(1 SHIFT/DAY)
le: 0.800	(FND-RF)
nt: 1.000	(CAT HB)
le: 1.000	(CAT HB)
ht: 0.902	(CAT HB)
be: 1.000	(PAT)
on: 0.4043	
382.47 LCY/hr	
382.47 LCY/hr	
	le:       0.800         nt:       1.000         le:       1.000         ht:       0.902         pe:       1.000         ph:       0.4043         382.47 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.006/LCY

Total job time:	<b>4.74</b> Hours
Total job cost:	\$1,825

## SAFEGUARDING UNDERGROUND OPENINGS

I	Task description:	Seal Mine S	Shafts and Porta	ıls		
Site:	Peabody Sage Creek Mir	ne	Permit Action:	MT3	Permit/J	ob#: <u>C2009087</u>
<u>PROJE</u>	CT IDENTIFICATION	[				
Task #:	080	State:	Colorado		Abbreviation:	None
Date:	2/14/2023	County:	Routt		Filename:	080
User:	HR1					
User:	Agency or organizati	on name:	DRMS			

## UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Mine Portal Openings	20'X11' (4)	Adit closure - bulkhead seal (per opening)	4.00	EA	\$7,213.62	\$28,854.48
Backfill Portal Openings	20'X11' (4)	Adit closure - backfilling (per opening)	4.00	EA	\$2,173.29	\$8,693.16
Seal Portal Dewatering Well	3'X90'	Shaft closure - backfilling, by hand	30.00	CY	\$41.65	\$1,249.50
Portal Dewatering Well Bottom Plug	3'X90'	Shaft closure - monolithic plug (per opening)	1.00	EA	\$17,765.50	\$17,765.50

Job Hours: 32.00

Total Cost: \$56,562.64

# BOREHOLE SEALING WORK

	Task description:	Drillhole/M	Ionitoring Well	Sealing		
Site:	Peabody Sage Creek M	ine	Permit Action:	MT3	Permit/J	lob#: C2009087
<u>PROJE</u>	CT IDENTIFICATIO	<u>N</u>				
Task #	: 090	State:	Colorado		Abbreviation:	None
Date	: 2/14/2023	County:	Routt		Filename:	090
User	: HR1					
	Agency or organiza	tion name:	DRMS			

# UNIT COSTS

Borehole	Sealing/Item Method					Unit	Total Cost
Description		Diameter	Length	Quantity	Unit	Cost	Total Cost
Seal Overburden	Portland cement grout (	6"	5033	220.00	bag	\$19.95	\$4,389.00
Wells	Bag, material cost						
	only94 lb. bag)						
Seal Coal Wells	Portland cement grout (	6"	3723	162.00	bag	\$19.95	\$3,231.90
	Bag, material cost						
	only94 lb. bag)						
Seal Underburden	Portland cement grout (	6"	3973	173.00	bag	\$19.95	\$3,451.35
Wells	Bag, material cost						
	only94 lb. bag)						
Seal Exploration	Portland cement grout (	6"	8600	375.00	bag	\$19.95	\$7,481.25
Wells	Bag, material cost						
	only94 lb. bag)						
Cut Casing at	Exposed casing removal	6"	23'	23.00	LF	\$3.26	\$74.98
Surface	- Calculate						
	Circumference in Linear						
	Feet						
Borehole Plug	PVC plug - 6 in.	6"	NA	23.00	EA	\$61.43	\$1,412.89
	diameter borehole						
Borehole Marker	Borehole	NA	NA	23.00	EA	\$37.50	\$862.50
	location/identification						
	marker (EA, material						
	cost only)						
Seal Misc	Portland cement grout (	12"	1000	175.00	bag	\$19.95	\$3,491.25
Borehole/Well	Bag, material cost						
	only94 lb. bag)						
Cut Casing at	Exposed casing removal	12"	4'	4.00	LF	\$3.26	\$13.04
Surface	- Calculate						
	Circumference in Linear						
	Feet						
Borehole Plug	PVC plug - 12 in.	12"	NA	4.00	EA	\$157.96	\$631.84
	diameter borehole					***	<b>*</b> 1 <b>=</b> 0.00
Borehole Marker	Borehole	NA	NA	4.00	EA	\$37.50	\$150.00
	location/identification						
	marker (EA, material						
D 111 D1 1	cost only)				<b>.</b>	A	
Drill Rig and	SCHRAMM T450WS	NA	NA	233.00	EA	\$567.59	\$132,248.47
Labor						<b>\$51.53</b>	¢12.050.54
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	233.00	EA	\$51.72	\$12,050.76
Seal Alluvial/Spoil	Bentonite seal - 6 in.	6"	222.2	7.00	LF	\$6.32	\$44.24
Wells	(labor, equip, materials)				-	\$10.0 <b>7</b>	
Seal and Abandon	Portland cement grout (	14"	45	6.00	bag	\$19.95	\$119.70
14" Water Pump	Bag, material cost						

Borehole (MR20)	only94 lb. bag)						
Seal and Abandon	Portland cement grout (	5.625"	45	2.00	bag	\$19.95	\$39.90
5.625" pump	Bag, material cost						
control hole	only94 lb. bag)						
Bottom Plug	PVC plug - 12 in.	14"	NA	1.00	EA	\$157.96	\$157.96
(MR20)	diameter borehole						
Bottom Plug	PVC plug - 6 in.	5.625"	NA	1.00	EA	\$61.43	\$61.43
(MR20)	diameter borehole						
Borehole Marker	Borehole	NA	NA	2.00	EA	\$37.50	\$75.00
(MR20)	location/identification						
	marker (EA, material						
	cost only)						
Cut Casings	Exposed casing removal	14 &	NA	5.28	LF	\$3.26	\$17.21
(MR20)	- Calculate	5.625"					
	Circumference in Linear						
	Feet						

Job Hours: 233.00

Total Cost: \$170,005.00

Та	ask descrip	tion:	Reseed North Fa	cilities Area	S			
Site:	Peabody	Sage Creek M	line Per	mit Action:	MT3	Pe	ermit/Job#:	C2009087
<u>PR</u>		IDENTIFIC					·	Ţ
	Task #:	100	State:	Colorado		Abbrevi		lone
	Date:	2/14/2023	County:	Routt		File	name: 1	00
	User:	HR1						
	Age	ency or organiz	ation name: DR	RMS				

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Composted manure DRMS Survey	500.00	pound	\$0.02	\$11.85
			Total Fertilizer Materials Cost/Acre	\$11.85

### Application

Description		Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)		\$71.00
	Total Fertilizer Application Cost/Acre	\$71.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73
Slender Wheatgrass - Native	1.00	3.65	\$4.63
Coneflower, Prairie	1.00	27.18	\$33.00

Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

### **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	k Cost / Acre	\$0.00

	No. of Acres:	14.35	Cost /Acre:	\$651.83	
Estimate	ed Failure Rate:	20%	Cost /Acre*:	\$651.83	
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LLING,SEEDING		
Initial Job Cost:	,				
Reseeding Job Cost:	\$1,870.75				
Total Job Cost:	\$11,225				

Task # 100

Task descri	ption:	Reseed South Fa	cilities Area	S		
Site: Peabody	Sage Creek N	fine Per	mit Action:	MT3	Permit/Job	o#: C2009087
<b>PROJECT</b>	IDENTIFIC	ATION				
Task #: Date:	101 2/14/2023	State: County:	Colorado Routt		Abbreviation: Filename:	None 101
User:	HR1	County:	Kouu		Filename.	101

## **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)	\$117.18
Total Tilling Cost/Acre	\$117.18

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73
Slender Wheatgrass - Native	1.00	3.65	\$4.63

Coneflower, Prairie	1.00	27.18	\$33.00
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

### **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	<b>*</b> 0.00
Total Mulcii Application Cost/Acre	\$0.00

### NURSERY STOCK PLANTING

	Cost	Pellet Cost	Cost /Acre
			\$
Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

1	No. of Acres:	76.8		Cost /Acre:	\$568.98
Estimated	Failure Rate:	20%		Cost /Acre*:	\$568.98
*Selected Replanting	Work Items:	TILLING,SEEI	DING		
Initial Job Cost: \$ Reseeding Job Cost: \$					

Total Job Cost:	\$52,437
Job Hours:	38.40

Task descrip	otion:	<b>Reseed Reclamed Roads</b>			
Site: Peabody	Sage Creek N	fine Permit Action:	MT3	Permit/Job#:	C2009087
PROJECT	IDENTIFIC	ATION			
Task #:	102	State: Colorado			None
Date: User:	2/14/2023 HR1	County: Routt		Filename:1	.02
Age	ency or organiz	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)	\$117.18
Total Tilling Cost/Acre	\$117.18

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73
Slender Wheatgrass - Native	1.00	3.65	\$4.63

Coneflower, Prairie	1.00	27.18	\$33.00
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

### **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
	\$0.00

### NURSERY STOCK PLANTING

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

	No. of Acres:	15.2		Cost /Acre:	\$568.98
Estimate	ed Failure Rate:	20%		Cost /Acre*:	\$568.98
*Selected Replanti	ng Work Items:	TILLING,SEEI	DING		
Initial Job Cost:	• /				
Reseeding Job Cost:	\$1,729.70				

Total Job Cost:	\$10,378
Job Hours:	7.10

e: Peabody	Sage Creek N	Aline Per	mit Action:	MT3	Permit/Jol	o#: <u>C2009087</u>
PROJECT	IDENTIFIC	CATION				
Task #:	103	State:	Colorado		Abbreviation:	None
Date:	2/14/2023	County:	Routt		Filename:	103
User:	HR1					

## **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)	\$117.18
Total Tilling Cost/Acre	\$117.18

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73
Slender Wheatgrass - Native	1.00	3.65	\$4.63

Coneflower, Prairie	1.00	27.18	\$33.00
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

### **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	<b>40.00</b>
Total Mulch Application CostActe	\$0.00

### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		<b>Totals</b>	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres:	1.45	(	Cost /Acre:	\$568.98
Estimate	d Failure Rate:	20%	C	ost /Acre*:	\$568.98
*Selected Replantir	ng Work Items:	TILLING,SEEI	DING		
Initial Job Cost: Reseeding Job Cost:	•				

Total Job Cost:	\$990
Job Hours:	3.00

Task descri	ption:	Seed Remaining BRB-2 and	BRB-3 Area		
te: Peabody	Sage Creek I	Mine Permit Action:	MT3	Permit/Job	#: <u>C2009087</u>
PROJECT	<b>IDENTIFIC</b>	CATION			
Task #:	104	State: Colorado		Abbreviation:	None
Date:	2/14/2023	County: Routt		Filename:	104
User:	HR1				

## **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
	\$
Total Tilling Cost/Acre	\$0.00

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73

Slender Wheatgrass - Native	1.00	3.65	\$4.63
Coneflower, Prairie	1.00	27.18	\$33.00
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

# **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	k Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	136.02	Cost /Acre:	\$451.80
Estimated Failure Rate:	0%	Cost /Acre*:	\$451.80
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$61,453.84** 

Reseeding Job Cost:	\$0.00
Total Job Cost:	\$61,454
Job Hours:	68.01

Task descrip	otion:	Seed Phase II Released BR	B4		
Site: Peabody	Sage Creek M	<b>line</b> Permit Action:	MT3	Permit/Job#	: C2009087
PROJECT	IDENTIFIC	ATION			
Task #:	106	State: Colorado			None
Date: User:	2/14/2023 HR1	County: <u>Routt</u>		Filename:	106
Age	ency or organiz	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
	\$
Total Tilling Cost/Acre	\$0.00

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$35.10
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Big Bluegrass - Sherman	0.10	2.07	\$0.85
Bitterbrush, Antelope	1.00	0.31	\$19.50
Aster, Engleman's	0.10	0.48	\$19.40
Mountain Brome - Bromar	1.00	1.61	\$3.80
Great Basin Wildrye - Magnar	1.00	4.06	\$11.55
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Rocky Mountain Fescue	0.10	1.61	\$0.73

Slender Wheatgrass - Native	1.00	3.65	\$4.63
Coneflower, Prairie	1.00	27.18	\$33.00
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Sagebrush, Mountain or Big	0.25	13.20	\$4.94
Flax, Lewis Blue	0.50	3.32	\$8.25
Sagebrush, Wyoming Big	0.25	14.78	\$5.81
Snowberry, Mountain	0.50	0.86	\$25.25
Penstemon, Palmer	0.10	2.21	\$5.45
Penstemon, Rocky Mountain	0.25	3.92	\$7.38
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	11.35	98.42	\$219.80

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

# **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	k Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	462.4	Cost /Acre:	\$451.80
Estimated Failure Rate:	0%	Cost /Acre*:	\$451.80
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$208,912.32** 

Reseeding Job Cost:	\$0.00
Total Job Cost:	\$208,912
Job Hours:	231.20

## **DEMOLITION WORK**

Site:	Peabody Sage Creek Mine		Permit Action:	MT3	Permit/J	lob#: <u>C2009087</u>
OJE	CT IDENTIFICATION					
ask #:	110	State:	Colorado		Abbreviation:	None
Date:	2/14/2023	County:	Routt		Filename:	110
User:	HR1					

### UNIT COSTS

## Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Security Building	12'X40'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.22	\$1,046.40
Bathhouse	42'X40'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.22	\$3,662.40
Bathhouse Floor	42'X40'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,286.88
Bathhouse Footers	84'X76'	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft Max. 10,000 ft. haul	160.00	LF	\$6.89	\$1,102.40
Temporary Bathhouse	24'X70'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.22	\$3,662.40
Temporary Bathhouse Floor	24'X70'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,286.88
Diesel Tank Removal	20,000g	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Diesel Tank Sludge Removal	5% of 20,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$245.00	\$245.00
Diesel Tank Dry Ice	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$1.99	\$597.00
Unleaded Fuel Tank Removal	2,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Unleaded Fuel Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$245.00	\$245.00
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$1.99	\$59.70

Used Oil Tank Removal	2,000g(3)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	3.00	EA	\$760.00	\$2,280.00
Used Oil Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	3.00	EA	\$245.00	\$735.00
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	90.00	LB	\$1.99	\$179.10
Mag Cholide Tank Removal	2,500g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
North Facilities Tank Pads	120 CY	Slab on grade, concrete, demolition only - Mesh reinforcing	120.00	CY	\$131.00	\$15,720.00
North Facilites Septic Tank	1,000G	Comprehensive storage tank removal, non- leaking - 3,000 to 5,000 gal. tank	1.00	EA	\$3,522.20	\$3,522.20
North Facilities Dosing Tank	1,000G	Comprehensive storage tank removal, non- leaking - 3,000 to 5,000 gal. tank	1.00	EA	\$3,522.20	\$3,522.20
Vehicle Maintenance Shop	140'X80'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	224,000.00	CF	\$0.22	\$49,728.00
Vehicle Maintenance Shop Floor	140'X80'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	11,200.00	SF	\$1.15	\$12,868.80
Parts Building	110'X70'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	154,000.00	CF	\$0.22	\$34,188.00
Parts Building Floor	110'X70'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	7,700.00	SF	\$1.15	\$8,847.30
Electrical Parts Building	30'X22'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	6,600.00	CF	\$0.22	\$1,438.80
Electrical Parts Building Floor	30'X22'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	660.00	SF	\$1.15	\$758.34
Lean-To Building	100'X12'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	1,200.00	CF	\$0.22	\$261.60
Office Building	60'X50'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	30,000.00	CF	\$0.22	\$6,540.00
Office Building Floor	60'X50'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000	3,000.00	SF	\$1.15	\$3,447.00

Engineering Trailer	55'X10'X10'	ft. haul Bldg. (SN) demo./on-	5,500.00	CF	\$0.22	\$1,199.00
		site disposal in existing pit or cut - Max. 10,000 ft. haul	2,200.00		\$0.22	¢1,177.00
Engineering Trailer Floor	55'X10'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	550.00	SF	\$1.15	\$631.95
Welding Shop	90'X56'X15'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.22	\$16,783.20
Welding Shop Floor	90'X56'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.15	\$5,790.96
PM Shop	120'X42'X15'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.22	\$16,783.20
PM Shop Floor	120'X42'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.15	\$5,790.96
Lube Storage Building	44'X18'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	7,920.00	CF	\$0.22	\$1,726.56
Lube Storage Building Floor	44'X18'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	792.00	SF	\$1.15	\$910.01
Wadge Pond 002 Pump Facility	20'X10'X8'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	1,600.00	CF	\$0.22	\$348.80
Wadge Pond 002 Pump Facility Pad	20'X10'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	200.00	SF	\$2.30	\$459.40
Wadge Pond 002 Pump Facility Precast Blocks	20'X20'	Wall, block, demolition only, 12 in. thick - No reinforcing	400.00	SF	\$1.20	\$480.00
Electrical Substation Pads	12'X30'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	360.00	SF	\$1.15	\$413.64
North Facilites Propane Tanks	1,000g (5)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	5.00	EA	\$760.00	\$3,800.00
North Facilites Propane Tank Saddles	4'X8'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	160.00	SF	\$3.79	\$606.40
Remove Fencing	20,000LF	Fencing, barbed wire, - 3 strand	20,000.00	LF	\$1.65	\$33,000.00
Remove Fencing	1100LF	Fencing, chain link, including posts and	1,100.00	LF	\$2.68	\$2,948.00

		fabric - to 6 ft. high				
Remove Powerlines	5 Miles	Utility Poles, Wood 35' - 45' high (each pole)	26.00	EA	\$297.50	\$7,735.00
Culvert 52A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	40.00	LF	\$10.15	\$406.04
Culvert SC-23	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	20.00	LF	\$7.68	\$153.56
Culvert 64A	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$7.68	\$307.12
Culvert 53A	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	40.00	LF	\$4.34	\$173.72
Culvert 54A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert 55A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert 13A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$5.90	\$354.12
Culvert 59A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert 9A	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	80.00	LF	\$17.76	\$1,420.88
Culvert 12A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	60.00	LF	\$10.15	\$609.06
Culvert A8	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert 31A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$5.90	\$354.12
Pond 002 Valve Building (MR17)	20'X12'X10'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	2,400.00	CF	\$0.22	\$523.20
Pond 002 Valve Building floor (MR17)	20'X12'X6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	240.00	SF	\$1.15	\$275.76
Pond 002 Valve Building Foundation	8'X10"	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	64.00	LF	\$4.59	\$293.76

				Total Cost	
		Subtotal		(adjusted for	
<b>Job Hours:</b>	134.00	(unadjusted):	\$266,073.14	location):	\$261,283.82

## **DEMOLITION WORK**

	Task description:	Demolish a	nd Remove Sou	th Facilites and	d Structures	
Site:	Peabody Sage Creek Min	ne	Permit Action:	MT3	Permit/J	lob#: <u>C2009087</u>
PROJE	CT IDENTIFICATION	Ī				
Task #	: 111	State:	Colorado		Abbreviation:	None
Date	: 2/14/2023	County:	Routt		Filename:	111
User	HR1					
	Agency or organizat	ion name:	DRMS			

### UNIT COSTS

# Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Million Gallon Water Tank	85'dX24'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	133,600.00	CF	\$0.22	\$29,659.20
Million Gallon Water Tank Pad	85'dX1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	5,682.00	SF	\$2.30	\$13,051.55
Milllon Gallon Water Tank Footer	85'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	85.00	LF	\$4.59	\$390.15
Remove 20.000g Diesel Tank	20,000	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Remove 20,000g Diesel Tank Sludge	5% of 20,000g	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$409.00	\$409.00
Dry Ice for Inert Transport 20,000g Diesel Tank	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$1.99	\$597.00
Remove 10,000g Diesel Tanks	10,000g(2)	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Remove 10,000g Diesel Tank Sludge	5% of 10,000g(2)	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	2.00	EA	\$409.00	\$818.00
Dry Ice for Inert Transport 10,000g Diesel Tanks	10,000g(2)	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$1.99	\$597.00
Remove 5,000g Diesel Tank	5,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Remove 5,000g Diesel Tank Sludge	5% of 5,000	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$245.00	\$245.00
Dry Ice for Inert Transport 5,000g Diesel Tank	5,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	75.00	LB	\$1.99	\$149.25
Remove 2,000g Unleaded Fuel Tank	2,000g	Haul tank to certified salvage dump - 3,000 to	1.00	EA	\$760.00	\$760.00

		5,000 gal. tank				
Remove 2,000g Unleaded Tank Sludge	5% of 2,000	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$245.00	\$245.00
Dry Ice for Inert Transport 2,000g Unleaded Tank	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$1.99	\$59.70
Remove 2,000 Oil Tanks	2,000g (6)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	6.00	EA	\$760.00	\$4,560.00
Remove 2,000g Oil Tank Sludge	5% of 2,000g(6)	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	6.00	EA	\$245.00	\$1,470.00
Dry Ice for Inert Transport 2,000g Oil Tank	2,000g(6)	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	180.00	LB	\$1.99	\$358.20
Remove Mag Chloride Tanks	2,500g(2)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	2.00	EA	\$760.00	\$1,520.00
Remove Propane Tank	20,000g	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Remove Propane Tank Saddles	8'X4'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	64.00	SF	\$3.79	\$242.56
Fuel Storage and Oil Storage Tank Pads	120 CY	Slab on grade, concrete, demolition only - Mesh reinforcing	120.00	CY	\$131.00	\$15,720.00
Portal Entry Fan Housing	30'X30'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.22	\$3,960.00
Pad Fan Housing	30'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.22	\$3,960.00
Pad Fan Pad	31'X70'X2'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 50 ft. push	2,170.00	SF	\$2.26	\$4,906.37
Pad Fan Footers	7'X7'X11'	Demo. and on-site disposal in excavated pit, 2.0 ft. x 3 ft Max. 50 ft. push	92.00	LF	\$14.14	\$1,300.88
Pad Fan Motor	10'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	1,000.00	CF	\$0.19	\$194.00
Electrical Substation Pad	160'X160'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	25,600.00	SF	\$1.53	\$39,219.20
Electrical Substation Fencing	600 LF	Fencing, chain link, including posts and fabric - to 6 ft. high	600.00	LF	\$2.68	\$1,608.00
Utility Building	30'X40'X12'	Bldg. (SN) demo./on-	14,400.00	CF	\$0.22	\$3,139.20
		site disposal in existing pit or cut - Max. 10,000				
-----------------------------------------	--------------	-----------------------------------------------------------------------------------------------------	-----------	----	----------	-------------
Utility Building Floor	30'X40'	ft. haulDemo. and on-sitedisposal in existing pit, 8in. thick - Max. 10,000	1,200.00	SF	\$1.53	\$1,838.40
Compressor Building	140'X40'X16'	ft. haul Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000	89,600.00	CF	\$0.22	\$19,891.20
Compressor Building Floor	140'X40'	ft. haulDemo. and on-sitedisposal in existing pit, 8in. thick - Max. 10,000	5,600.00	SF	\$1.53	\$8,579.20
Waste Handling and Recycle Area	250'X8'X6"	ft. haul Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000	2,000.00	SF	\$2.60	\$5,200.00
Waste Handling and Recycle Area Pad	100'X150'	ft. haul Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	15,000.00	SF	\$1.15	\$17,235.00
Waste Handling and Recycle Area Roof	50'X150'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000	7,500.00	CF	\$0.22	\$1,635.00
Portal Conveyor	100LF	ft. haul OBSOLETE-Conveyor, overland, including supports - 5 ft. W x 6 ft.	100.00	LF	\$17.60	\$1,760.00
Transfer Conveyor	700LF	H housing OBSOLETE-Conveyor, overland, including supports - 5 ft. W x 6 ft.	700.00	LF	\$17.60	\$12,320.00
Radial Staker Conveyor	150LF	H housing OBSOLETE-Conveyor, elevated, including supports - 5 ft. W x 6	150.00	LF	\$44.51	\$6,676.35
Temporary Conveyor Supports	67 CY	ft. H housingSlab on grade, concrete, demolition only - No reinforcing	67.00	СҮ	\$96.00	\$6,432.00
Mine Portal Heaters (Bury in Pit)	2 Each	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	10.00	CF	\$0.19	\$1.94
Rock Dust Tanks (2)	1131 SF	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	1,131.00	CF	\$0.22	\$251.08
Rock Dust Tank Pads (2)	22 CY	Slab on grade, concrete, demolition only - Rod reinforcing	22.00	СҮ	\$172.50	\$3,795.00
Electrical Metering Station	30'X30'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	900.00	CF	\$0.22	\$196.20
Electrical Metering Station Pad	30'X30'	Demo. and on-site disposal in existing pit, 6	900.00	SF	\$1.15	\$1,034.10

		in. thick - Max. 10,000 ft. haul				
Portal Pump Station (Buried in Pit)	36.5'X36'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	10.00	CF	\$0.19	\$1.94
Covered Storage Building	150'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	90,000.00	CF	\$0.22	\$19,980.00
Covered Storage Pylons	2'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	160.00	LF	\$4.59	\$734.40
Covered Storage Building	200'X30'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	120,000.00	CF	\$0.22	\$26,640.00
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	180.00	LF	\$4.59	\$826.20
Covered Storage Buildings (2)	200'X50'X20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	400,000.00	CF	\$0.22	\$88,800.00
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	360.00	LF	\$4.59	\$1,652.40
South Facilities	9100LF	Utility Poles, Wood 35' -	10.00	EA	\$297.50	\$2,975.00
Powerlines Powder Magazines (2)	16'X12'X10'(2)	45' high (each pole) Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,840.00	CF	\$0.22	\$837.12
Powder Magazine Fence	450 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	450.00	LF	\$3.08	\$1,386.00
Culvert 15A	54"(2)	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	120.00	LF	\$23.89	\$2,866.68
Culvert SC-20	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	60.00	LF	\$7.68	\$460.68
Culvert SC-19	54"	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	90.00	LF	\$23.89	\$2,150.01
Culvert SC-17	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$12.24	\$734.52
Culvert SC-9 (Buried in Pit)	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	1.00	LF	\$12.24	\$12.24
Culvert SC-24 (Buried in Pit)	6"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	1.00	LF	\$3.31	\$3.31
Culvert SC-22	36"	Pipe, corrugated metal	60.00	LF	\$12.24	\$734.52

		(CMP) - 36 in. diameter				
Culvert SC-21	24"	pipe Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$7.68	\$307.12
Culvert SC-13	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert SC-18	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	20.00	LF	\$7.68	\$153.56
Culvert SC-25	8"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	10.00	LF	\$3.31	\$33.07
Culvert SC-16	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	100.00	LF	\$17.76	\$1,776.10
Culvert SC-10	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	240.00	LF	\$12.24	\$2,938.08
Culvert SC-15	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$12.24	\$734.52
Culvert SC-11	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	80.00	LF	\$5.90	\$472.16
Culvert SC-12	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$5.90	\$236.08
Culvert SC-14	48"(2)	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	160.00	LF	\$17.76	\$2,841.76
Pumphouse Pad (MR20)	6'X'6X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	36.00	SF	\$2.30	\$82.69
Pumphouse Building (MR20)	4'X4'X8'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	128.00	CF	\$0.21	\$26.24
Remove Culvert SC- 27	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	25.00	LF	\$7.68	\$191.95
Demolish and Remove Microwave Tower Foundation	8'x8'x8'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	64.00	SF	\$1.53	\$98.05
Demolish and Remove Microwave Tower	10'x25'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	250.00	CF	\$0.22	\$54.50
Demo temporary tent MR32	30x50	Cat D8T - 8SU	0.50	EA	\$263.78	\$131.89

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	190.00	(unadjusted):	\$382,053.60	location):	\$375,176.64

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	e Equipment fro	om Hayd	en		
e: <u>Peabody Sage C</u>	Creek Mine	Permit	Action: MT3			Permit/Job#: <u>C</u>	2009087
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 120		State: Co	olorado		Abbre	eviation: None	
	/2023	County: Ro	outt		Fi	ilename: 120	
User: HR1							
Agency or	organization	name: DRMS					
EQUIPMENT TI	RANSPOR	Г RIG COST					
					Shift ba Cost Data Sou	1	
Truck	Fractor Desci	ription: GENE	RIC ON-HIGH		UCK TRACTO (2ND HALF,	OR, 6X4, DIESEI 2006)	POWERED,
Truck	Trailer Desci	ription: G	ENERIC FOLD			ROP DECK EQU	IPMENT
THUR					(25T, 50T, Al	-	
						/	
Cost Breakdown:							
Available Rig Ca		0-25 Tons	26-50 Tons		+ Tons		
Ownership (		\$15.25	\$23.06		37.58		
Operating (		\$25.26	\$30.83	\$	51.41		
Operator (	Cost/Hour:	\$27.71	\$27.71	\$27.71			
Helper (	Cost/Hour:	\$0.00	\$20.22	\$	20.22		
Total Unit C	Cost/Hour:	\$68.22	\$101.82	\$1	136.92		
NON ROADABL	E EQUIPM	<u>IENT:</u>					
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 D10T - 10SU	84.53	\$153.67	\$136.92	6	\$1,743.54	\$821.52	\$1,500.00
Cat 637G w/push- pull	59.59	\$287.19	\$136.92	4	\$1,696.44	\$547.68	\$1,000.00
CAT 972H	28.00	\$53.96	\$101.82	1	\$155.78	\$101.82	\$250.00
CAT 980H	33.12	\$54.58	\$101.82	2	\$312.80	\$203.64	\$500.00
Cat D9T - 9SU	60.01	\$146.30	\$136.92	2	\$566.44	\$273.84	\$500.00
Cat D8T - 8SU	47.71	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
Cat 772	36.80	\$95.99	\$101.82	1	\$197.81	\$101.82	\$250.00
SCHRAMM T450WS	35.00	\$258.41	\$101.82	1	\$360.23	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Water Tanker, 10,000 Gal.	41.10	\$91.73	\$101.82	1	\$193.55	\$101.82	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$84.48	\$101.82	1	\$186.30	\$101.82	\$250.00
Cat 770D	37.54	\$79.42	\$101.82	8	\$1,449.92	\$814.56	\$2,000.00
CAT 14M	23.57	\$114.80	\$68.22	2	\$366.04	\$136.44	\$500.00

Subtotals: \$7,529.99 \$3,476.82 \$7,750.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 10-12 cy, 6x4	\$107.03	6	\$642.18	\$642.18
Flatbed Truck, 4x2, 15K GVW	\$25.32	1	\$25.32	\$25.32
Fuel Tanker, 6x4, 210 HP	\$48.30	1	\$48.30	\$48.30
Lube Truck, 6x4, 250 HP	\$48.30	1	\$48.30	\$48.30
		Subtotals:	\$764.10	\$764.10

## **EQUIPMENT HAUL DISTANCE and Time**

HAYDEN 10.00 30.00	miles mph
\$37,897.85	
\$509.40	
-	10.00 30.00 \$37,897.85

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

### JOB TIME AND COST

Total job time: **3.33** Hours

Total job cost: \$38,407

## SITE MAINTENANCE

			enance During I	•		
Site:	Peabody Sage Creek Min	e	Permit Action:	M13	Permit/.	Job#: <u>C2009087</u>
PROJE	CT IDENTIFICATION					
Task #:	125	State:	Colorado		Abbreviation:	None
Date:	2/14/2023	County:	Routt		Filename:	125
User:	HR1					
User:	HR1 Agency or organizati	on name: _	DRMS			
<u>UNIT CC</u>	<u>DSTS</u>					

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Rill and Gully Repair	40.00	CAT 14M	400.00	EA	\$222.75	\$89,100.00

Job Hours: 400.00

Total Cost: \$89,100.00

\_\_\_\_

# **REVEGETATION WORK**

Task description: Weed		Weed Managment Over Lia	bility Period		
ite: Peaboo	ly Sage Creek I	Mine Permit Action:	MT3	Permit/Job	#: <u>C2009087</u>
<u>PROJEC</u>	T IDENTIFIC	CATION			
Task #	: 126	State: Colorado		Abbreviation:	None
Date	: 2/14/2023	County: Routt		Filename:	126

# **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
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

### **Application**

Description	Cost /Acre
	\$

#### **Total Seed Application Cost/Acre**

#### \$0.00

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	150.00	ACRE	\$3.04	\$456.00
<b>Total Mulch Materials Cost/Acre</b>				\$456.00

### Application

Description		Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]		\$183.16
	<b>Total Mulch Application Cost/Acre</b>	\$183.16

### **NURSERY STOCK PLANTING**

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

### JOB TIME AND COST

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	0%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$10,929.64			
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$10,930			
Job Hours:	0.00			

## SITE MAINTENANCE

	Task description:	Water Mon	itoring During	Liability Period		<u> </u>
Site:	Peabody Sage Creek Mi	ne	Permit Action:	MT3	Permit/J	lob#: <u>C2009087</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>1</u>				
Task #:	127	State:	Colorado		Abbreviation:	None
Date	2/14/2023	County:	Routt		Filename:	127
User:	HR1					
	Agency or organizat	ion name:	DRMS			

## UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
NPDES Site 003 - Sampling \$/Hr	0.25	USER PROVIDED ITEM	2.50	EA	\$48.60	\$121.50
NPDES Site 004 - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
NPDES Site 002 - Sampling \$/Hr	0.25	USER PROVIDED ITEM	2.50	EA	\$48.60	\$121.50
GW Monitoring Wells (15)	2.00	USER PROVIDED ITEM	300.00	EA	\$57.40	\$17,220.00
Grassy Creek Upstream - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
Grassy Creek Downstream - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
Sampling Containers - 7 Sets	1.00	USER PROVIDED ITEM	7.00	EA	\$36.00	\$252.00
Lab Analysis - for 20 Sites/year	1.00	USER PROVIDED ITEM	200.00	EA	\$187.00	\$37,400.00

Job Hours: 60.00

Total Cost: \$55,844.00

# TRUCK/LOADER TEAM WORK

ek Mine			Sumps		
:K IVIIIIe	Permit Activ	on: MT3	]	Permit/Job#:	C2009087
IFICATION	ſ				
	-	ado	۵b	breviation N	None
3		ado	A0		128
ganization nar	ne: DRMS				
gamzation nan					
AENT COST	<u> </u>		Shift bas	is: <u>1 per day</u>	
ck Loader Tea			4		
Equipment -I					
itenance - Mot	or Grader: NA				
-Wa	ter Truck: NA				
Truck/Lo	adar Taam	Support	Fauinment	Mainter	ance Equipment
			-		
NTITIES					
			factor: <u>1.090</u>		
e of estimated estimated swe Material Purch	volume: Divis ell factor: Cat I ase Cost: \$0.00	sion of Reclamation Handbook	on, Mining & Safe	ety	
<u>UCTION</u>					
t) Basis:					
		Downd-/LOW	•		
ght: 2,600	nd oravel - Wet	Pounds/LCY	·		
ght: 2,600	nd gravel - Wet	Pounds/LCY Pounds			
	23 ganization nar MENT COST ck Loader Tea Equipment -L -Du tenance –Mot -Wa Truck/Loa Truck/Loa Truck/Loa Truck/Loa Contenance –Mot -Wa 100 \$20.03 \$55.09 NA 100 \$20.03 \$55.09 NA NA NA NA NA NA NA NA NA So.00 \$75.12 6 Work: nour: <u>\$657.23</u> NTITIES 5,485 5,979 See of estimated sweater al Purch	County:Routtganization name:DRMSMENT COSTck Loader Team -Truck:Ger-Loader:CACAEquipment -Load Area:NA-Dump Area:NA-Dump Area:NAntenance -Motor Grader:NA-Water Truck:NATruck/Loader TeamTruckTruckTrack Loader10020\$20.03\$147.66\$55.09\$18.15NA0NA\$0.00\$0.00\$40.71\$75.12\$206.5161Work:\$657.23nour:\$657.23MITTIES\$,485\$,485CCY\$,485CCYte of estimated volume:Divisestimated swell factor:Cat HMaterial Purchase Cost:\$0.00\$0.00\$0.00	State:       Colorado         Bautt       Routt         ganization name:       DRMS         MENT COST       Equipment Descrite         AENT COST       Generic 10-12 cy, 6x         -Loader:       CAT 973D         Equipment -Load Area:       NA         -Dump Area:       NA         -Dump Area:       NA         -tenance -Motor Grader:       NA         -Water Truck:       NA         Truck/Loader Team       Support         Truck       Track Loader       Load Area         100       20       NA         \$20.03       \$147.66       NA         \$20.03       \$147.66       NA         \$55.09       \$18.15       NA         NA       0       NA         \$0.00       NA       \$0.00         NA       \$0.00       NA         \$75.12       \$206.51       NA         \$75.12       \$206.51       NA         \$75.12       \$206.51       NA         \$657.23       Support:       nour:         \$485       CCY       Swell	State:       Colorado       Ab         23       County:       Routt       Ab         ganization name:       DRMS       Shift bas         MENT COST       Shift bas       Equipment Description         ck Loader Team -Truck:       Generic 10-12 cy, 6x4	State:       Colorado       Abbreviation:       1         ganization name:       DRMS         MENT COST       Shift basis:       Lper day         reprime Team       CAT 973D       Equipment Description         ck Loader       CAT 973D       Cat 973D         Equipment Load Area:       NA       NA         -Loader:       CAT 973D       Cat 973D         Equipment -Load Area:       NA       NA         -Dump Area:       NA       Mainter         -Water Truck:       Na       Mainter         Truck/Loader Team       Support Equipment       Mainter         Truck/Loader Team       Support Equipment       Mainter         Truck       Track Loader       Load Area       Dump Area       Motor Grade         100       20       NA       NA       NA         \$\$20.03<\$147.66

		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	12.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	9.22	LCY	
Loading Tool Capacity						
			Buch	ket Size Class: <u>N</u>	JA	_
Rated Capacity:	4.190	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	0-120%) 1.100		_
Adjusted Capacity:	4.609	LCY				
Job Condition Corrections:	-	Si	ite Altitude (ft.): 6	<u>6800</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	,		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to	Fill Truck:	2 p	asses
Excavators and Front Shovel					r	
Machine Cycle Time vs		n Rating: NA				
Selected Value v						
Track Loaders –	Material Descr	iption:				
Cycle Time Elements (min.):						
Load: 0.050	Μ	laneuver: 0.200		Dump: 0.05	5	
	-					
Wheel and Track Loaders -	Unadjusted Ba	sic Loader Cvcle Ti	ne (load, dump, r	maneuver): (	.305 minu	ites
Wheel and Track Loaders - Cycle Time Factors	Unadjusted Ba	sic Loader Cycle Ti	me (load, dump, r		0.305 minu	ites
Cycle Time Factors	-		me (load, dump, 1	Factor (min.)	Source	ites
Cycle Time Factors Material:	Mixed materi	al 0.02			Source (Cat HB)	ites 
Cycle Time Factors	Mixed materi No adjustmer		able 0.00	Factor (min.) 0.020	Source	utes 
Cycle Time Factors Material: Stockpile:	Mixed materi No adjustmer	al 0.02 nt - factor not applica nership of trucks and	able 0.00	Factor (min.) 0.020 0.000 -0.040 0.040	Source (Cat HB) (Cat HB)	ites   
Cycle Time Factors Material: Stockpile: Truck Ownership:	Mixed materi No adjustmer Common own	al 0.02 nt - factor not applica nership of trucks and operation 0.04 et 0.00	ible 0.00 loaders -0.04	Factor (min.) 0.020 0.000 -0.040 0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed materi No adjustmer Common own Inconsistent o	al 0.02 ht - factor not applica hership of trucks and operation 0.04 et 0.00 Net Cycle Tim	able 0.00 loaders -0.04 ne Adjustment:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed materi No adjustmer Common own Inconsistent o	al 0.02 ht - factor not applicant hership of trucks and peration 0.04 et 0.00 Net Cycle Tim Adjusted Load	able 0.00 l loaders -0.04 ne Adjustment: er Cycle Time:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020 0.325	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ntes    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed materi No adjustmer Common own Inconsistent o	al 0.02 ht - factor not applicant hership of trucks and peration 0.04 et 0.00 Net Cycle Tim Adjusted Load	able 0.00 loaders -0.04 ne Adjustment:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ntes    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed materi No adjustmer Common own Inconsistent o	al 0.02 ht - factor not applicant hership of trucks and peration 0.04 et 0.00 Net Cycle Tim Adjusted Load	able 0.00 l loaders -0.04 ne Adjustment: er Cycle Time:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020 0.325	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed materi No adjustmer Common own Inconsistent o Nominal targ	al 0.02 ht - factor not applicant hership of trucks and peration 0.04 et 0.00 Net Cycle Tim Adjusted Load	able 0.00 l loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020 0.325	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	-
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Mixed materi No adjustmer Common owr Inconsistent o Nominal targ	al 0.02 nt - factor not applica nership of trucks and operation 0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	able 0.00 l loaders -0.04 ne Adjustment: ler Cycle Time: 'ime per Truck:	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020 0.325 0.380	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	    
Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	Mixed materi No adjustmer Common own Inconsistent of Nominal targe 0.50 0.380	al 0.02 ht - factor not applicant hership of trucks and operation 0.04 et 0.00 Net Cycle Tim Adjusted Load Net Load T Minutes	able 0.00 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted	Factor (min.) 0.020 0.000 -0.040 0.040 0.000 0.020 0.325 0.380 for site altitude:	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.500	Minute Minute Minute

	Haul Rou	ite:							
	Seg # Haul Dista		stance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1 3696		00	0.00	3.00	3.00	2824	13.189	
						Haul Time:	13.189	minutes	
r	Return Re			T	1	1			
	(Ft)		stance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
-					(%)	(%)	(fpm)	Time (min)	
	1	36960.0	00	0.00	3.00	3.00	2874	12.886	
						Return Time:	12.886		
					Total True	ck Cycle Time:	27.855	minute	s
Loading Tool unit									
	Produ	uction	628.50	LCY/Hour		Adjusted for j	ob efficiency:	521.66	LCY/Hour
Truck Unit Production			19.86	LCY/Hour		Adjusted for j	ob efficiency:	16.48	LCY/Hour
Optimal No. of Trucks:			32	Truck(s)		Selected Numl	per of Trucks:	6	Truck(s)
				Adjusted hourly truck team production:					//Hour
				Adjusted single truck/loader team production				98.88 LCY/Hour	
				Adjusted multiple truck/loader		team production: 98.		<b>38</b> LCY/Hour	
JOB TIME AND COST									
	Fleet size: Unit cost:		1	Team(s)		otal job time:	60.4	<b>6</b> He	ours
			\$6.647	/LCY	r	Fotal job cost:	\$39,7	38	