

March 13, 2025

Kevin Peart Holcim – WCR, Inc. 1687 Cole Blvd. Suite 300 Golden, CO 80401

RE: Daniels Sand Pit 2, Permit No. M-1973-007-SG; Technical Revision (TR-11) Adequacy Review #2

Dear Mr. Peart,

On March 11, 2025 the Division of Reclamation, Mining and Safety (Division) received your adequacy response letter for TR-11 at the Daniels Sand Pit 2, M-1973-007-SG. The Division has reviewed the above referenced adequacy review response letter and material submitted. The following is a list of the adequacy review items from the Division's first adequacy review. If additional information or revision is required, it will be noted. If an item is resolved, that will be indicated.

- 1. The map provided on page 99, after Fig. 3 '7 Year Planned Build Out 2' map, is illegible. Please provide a replacement map for this figure. *Resolved*.
- 2. Have Factor of Safety analyses considered rapid drawn down stability calculations for the embankment? If so, please provide figures which illustrate this analysis. If not, please explain why rapid drawn down is not applicable to this project. *Resolved*.
- 3. Has the dam raised study evaluated an embankment failure? If so, where, in what quantity, and to what elevation would an embankment failure expect to deposit water and or material? How would a failure impact Academy Blvd. specifically? Please discuss any plans on how the site might mitigate this risk or address it should the embankment fail. *Resolved.*
- 4. In the initial permitting of this wash fines impoundment, possible effects on the Schlage lock pump & treat system were investigated. This investigation included reporting on possible groundwater mounding impacts to the lock system. It was reported that although possible mounding from the impoundment would increase the rate of flow of contaminated water to the system, that this would not negatively impact the system itself. Please provide information to ensure that the increased capacity of the impoundment will not have negative impacts on the Schlage pump & treat system. *Resolved*.
- 5. Page 2 of the Dam Raise Study states that the current height of the embankment is 22.5 feet. Page 1 states that the proposed change is a 22.5 foot raise to the embankment. Is the Division correct in interpreting this to mean that the proposed dam raise would create an



- embankment with a final height of 45 feet? Please also ensure that all figures included in the Dam Raise Study, specifically the cross sections on Figure 6 match this maximum embankment height. **Resolved.**
- 6. Clarify for the Division the sequence of Figures in Appendix A labeled as Fig. 1 -3. Do these figures represent a construction sequence? Why is the extended embankment shown on Fig. 2 but not Fig. 3? *Resolved*.
- 7. Currently, water within the wash fines pond impounds to the northeast and fines slurry is deposited into the pond through the western embankment. Will the location of impounding water shift with this embankment raise? If so, will the wash fines discharge point remain on the western embankment, or will this be permanently relocated? *Resolved*.
- 8. Where will water collected by the embankment's blanket drain / toe drain be discharged to onsite? *Resolved*.
- 9. Will there be any additional height raises to the N, E, or S sides of the wash fines pond? Or will earthwork on these slopes be confined to minimal regrade to meet the required 3:1 slopes? *Resolved*.
- 10. Please provide narrative to explain to the Division how the site can ensure that enough material of the classified soil composition assumed in the slope stability analysis and soil strength properties is available onsite to construct the embankment as designed and ensure a high enough FOS. *Resolved*.
- 11. The Division has calculated an updated reclamation cost estimate for the Daniels Sand Pit 2. This estimate has been provided with this letter. The Division respectfully requests a response from Holcim- WCR, Inc. with any questions regarding the cost estimate or an acceptance of the Division's estimate.

Please submit your response(s) to the above listed issue(s) by **March 21, 2025** in order to allow the Division sufficient time for review. If you cannot address the above issues by such date, please request an extension to the decision due date in order to ensure adequate time for the Division to review the materials. A decision due date of March 26, 2025 has been set. If any adequacy issues remain by the decision due date the Division may deny your request.

The Division will continue to review your Technical Revision and will contact you if additional information is needed.

If you require additional information, or have questions or concerns, please feel free to contact me at 720-868-7757 or hunter.ridley@state.co.us

Sincerely, Hunter C. Ridley Hunter Ridley

Environmental Protection Specialist

CC: Zach Trujillo, DRMS

COST SUMMARY WORK

Daniels Sa	and Pit 2	Per	rmit Action:	TR11	Permit/Jol	o#: <u>M1973007SG</u>
PROJECT I	DENTIFICAT	<u>ΓΙΟΝ</u>				
Task #: _ Date: _ User:	000 3/12/2025 HR1	State: County:	Colorado El Paso		Abbreviation: Filename:	None M007-000

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
E03	Forest/Shrub East Sediment Basin	REVEGE	1	80.00	\$9,499
E16	Backfill Reconstruction-S.side E. Sed basin	SCRAPER1	1	49.47	\$119,507
E17	Backfill Reconstruction-S.side New Sed basin	SCRAPER1	1	32.10	\$77,548
E18	Backfill Reconstruction-S. & SE sides of Sed basin	SCRAPER1	1	48.67	\$111,028
E19	Grade Embankment-W.side E. Sed basin (wash fines pond)	GRADER	1	5.09	\$1,404
P09	Replace TS on Pit Floor	SCRAPER1	1	77.87	\$182,665
P10	Seed Pit Floor	REVEGE	1	220.00	\$81,792
P11	Replace TS on Pit Slopes	SCRAPER1	1	123.52	\$289,757
P12	Seed Pit Slopes	REVEGE	1	200.00	\$91,185
W01	Backfill West Sediment Basin	TRUCK1	1	80.83	\$75,549
W02	Replace TS West Sediment Basin	TRUCK1	1	35.81	\$39,388
W3A	Seed West Sediment Basin	REVEGE	1	40.00	\$12,852
W3B	Forest/Shrub West Sediment Basin	REVEGE	1	40.00	\$4,176
Z 99	Mob / Demob Equipment	MOBILIZE	1	1.44	\$9,469
		1034.8	\$1,105,819		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$22,338
Performance bond:	1.05	Total =	\$11,611
Job superintendent:	517.40	Total =	\$41,014
Profit:	10.00	Total =	\$110.582

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500	
Engineering work and/or contract/bid preparation:	4.25	Total =	\$54,883	
Reclamation management and/or administration:	5.00		\$64,568	

CONTINGENCY: 0.00 Total = __\$0

TOTAL INDIRECT COST = \$305,496

TOTAL BOND AMOUNT (direct + indirect) = \$1,411,315

REVEGETATION WORK

Task description:	Forest/Shrub East Sediment Basin				
e: Daniels Sand Pit 2	Permit Action: TR11 Permit/Job#:				: <u>M1973007SG</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: E03	State: Colorado		Abl	oreviation:	None
Date: 3/12/2025					E03
User: HR1					
Agency or organ	nization name: DRMS				
FERTILIZING					
<u>Materials</u>					
Description	Units / Acre	Unit	Cost	t / Unit	Cost /Acre
•	13300		\$		\$
			Tota	al Fertilizer Materials Cost/Acre	\$0.00
			·		
Application					
Description					Cost /Acre
					\$
	Total I	Fertilizer	Application	n Cost/Acre	\$0.00
<u> FILLING</u>					
Description					Cost /Acre
					\$
		T	Total Tilling	g Cost/Acre	\$0.00
SEEDING					
			Rate –		
Seed Mix			PLS	Seeds	Cost /Acre
			LBS /	per SQ. FT	
			Acre	I.I.	
					\$
	Totals Se	eed Mix	0.00	0.00	\$0.00
Application	- 34410 84				φυ.υυ
Description					Cost /Acre
Description					
					\$

Total Seed Application Cost/Acre	\$0.00

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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
	\$212.50				

JOB TIME AND COST

 No. of Acres:
 29.8
 Cost /Acre:
 \$212.50

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$212.50

*Selected Replanting Work Items: NURSERY

Initial Job Cost: \$6,332.50

Reseeding Job Cost: \$3,166.25

Total Job Cost: \$9,499

Job Hours: 80.00

SCRAPER TEAM WORK

	Task description:	Backfill Re	truction	-S.side E	. Sed basin			
Site:	Daniels Sand Pit	2	Permi	t Action:	TR11	Peri	mit/Job#: <u>M197</u>	3007SG
	PROJECT IDEN	<u> FIFICATION</u>						
	Task #: <u>E16</u>			Colorado			viation: None	
	Date: 3/12/20 User: HR1	025 Co	unty:]	El Paso		Fil	ename: E16	
	Agency or o	organization name:	DRM	IS				
	HOURLY EQUIE	PMENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
				Equipme	ent Description			
			craper:	Cat 623	3G			
_	C		Dozer:	NA				
	Suppo	rt Equipment -Loa Dum-	n Area:	NA Cat D8	T - 8SU			
	Road Ma	intenance –Motor		NA	1 000			
_		-Water	Truck:	NA				
	Cost Breakdown:	Scraper Wo	rk Team		Support Equi	nment	Maintenance	Equipment
		Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%L	Itilization-machine:	100		NA	NA	100	NA	NA
O	wnership cost/hour:	\$265.74		NA	NA	\$173.32	NA	NA
C	Operating cost/hour:	\$194.31		NA	NA	\$109.71	NA	NA
9	%Utilization-ripper:	NA		NA	NA	100	NA	NA
Rip	per own. cost/hour:	NA		NA	NA	\$14.53	NA	NA
R	ipper op. cost/hour:	NA		NA	NA	\$7.95	NA	NA
	Operator cost/hour:	\$57.52		NA	NA	\$40.04	NA	NA
	Unit Subtotals:	\$517.57		NA	NA	\$345.55	NA	NA
	Number of Units:	4		0	0	1	0	(
	Group Subtotals:	Work:	\$2,07	0.28	Support:	\$345.55	Maint:	\$0.00
	Total work team cost	/hour: \$2,415.83						
	MATERIAL QUA	ANTITIES						
	Initial volume:	29,973		CCY	Swell fact	tor: 1.266		
	Loose volume:	37,940		LCY				
	Sou	rce of estimated vo	lume:	DRMS u	pdated AM-03 E	xhibit L		
	Source of	of estimated swell	actor:	Cat Han	dbook			
	HOURLY PROD	<u>UCTION</u>						
					Scraper Bo	owl (volume) Bas	is:	
	Material weight:	2,700 lbs/LCY			Struck	Volume: 18.00	L	CY
N	Material description:	Sand and clay - I	oose		•	Volume: 23.00		CY
	Rated Payload:	55,200 pounds			Average	Volume: 20.50		CY CY
	Pavioad Canacity	/U 44 L U Y			A MILLS A	anacity: 71 44	1 (l T

Site Altitude: 5800 feet

Cycle Time	<u>.</u>
•	

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \\ \end{array}$

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	2400.00	2.00	5.00	7.00	944	2.60

Haul Time: 2.60 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2400.00	-2.00	5.00	3.00	2666	1.11

Return Time: 1.11 minutes Total Scraper team cycle time: 5.31 minutes Adjusted for job conditions: 191.74 LCY/Hour Selected Number of Scrapers: 4 Scraper(s) Adjusted single scraper team (unit) hourly production: 766.96 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 766.96 LCY/Hour Unadjusted unit production/hour: 231.01 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 49.47
 Hours

 Unit cost:
 \$3.150
 /LCY
 Total job cost:
 \$119,507

SCRAPER TEAM WORK

Task description:	Backfill Ro	etruction	-S.side N	New Sed basin			
Site: Daniels Sand Pit	2	Permit	Action:	TR11	Peri	mit/Job#: <u>M197</u>	3007SG
PROJECT IDEN	TIFICATION						
Task #: <u>E17</u>			Colorado			viation: None	
Date: 3/12/2 User: HR1	2025 Co	unty: <u>E</u>	El Paso		Fil	ename: E17	
Agency or	organization name:	DRM	S				
HOURLY EQUI	PMENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
			Equipme	ent Description			
		Scraper:	Cat 623	3G			
		-Dozer:	NA				
Supp	ort Equipment -Loa	d Area: p Area:	NA Cat D8'	T - 8SU			
Road M	aintenance – Motor		NA	1 050			
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wo	rk Team		Support Equip	nment	Maintenance	Fauinment
Cost Dicardown.	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		NA	NA	100	NA	NA
Ownership cost/hour:	\$265.74		NA	NA	\$173.32	NA	NA
Operating cost/hour:	\$194.31		NA	NA	\$109.71	NA	NA
%Utilization-ripper:	NA		NA	NA	100	NA	NA
Ripper own. cost/hour:	NA		NA	NA	\$14.53	NA	NA
Ripper op. cost/hour:	NA		NA	NA	\$7.95	NA	NA
Operator cost/hour:	\$57.52		NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57		NA	NA	\$345.55	NA	NA
Number of Units:	4		0	0	1	0	0
Group Subtotals:	Work:	\$2,07	0.28	Support:	\$345.55	Maint:	\$0.00
Total work team co	st/hour: \$2,415.83						
MATERIAL QU	ANTITIES						
Initial volume	: _15,323		CCY	Swell fact	tor: 1.266		
Loose volume	19,396		LCY				
So	urce of estimated vo	olume:	DRMS t	ipdated AM-03 Ex	xhibit L		
Source	of estimated swell	factor: _	Cat Han	dbook			
HOURLY PROI	<u>OUCTION</u>						
				Scraper Bo	owl (volume) Bas	is:	
Material weight:	2,700 lbs/LCY			Struck	Volume: 18.00	L	CY
Material description:		Loose		Heaped			CY
Rated Payload:				Average			CY
Payload Canacity	20 44 LCY			Adjusted C	anacity: 20.44	T (CY

Site Altitude: 5800 feet

C	vcle	Time:

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \end{array}$

<u>Job Condition Correction:</u>

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	3400.00	2.00	5.00	7.00	944	3.66

Haul Time: ______ 3.66 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3400.00	-2.00	5.00	3.00	2666	1.48

Return Time: 1.48 minutes Total Scraper team cycle time: 6.74 minutes Adjusted for job conditions: 151.06 LCY/Hour Selected Number of Scrapers: Scraper(s) 4 Adjusted single scraper team (unit) hourly production: 604.23 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 604.23 LCY/Hour

Unadjusted unit production/hour: 182.00 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	32.10	Hours
Unit cost:	\$3.998	/LCY	Total job cost:	\$77,548	

SCRAPER TEAM WORK

	Task description:	Backfill Re	truction	-S. & SE	sides of Sed bas	in		
Site:	Daniels Sand Pit	2	Permi	t Action:	TR11	Peri	mit/Job#: <u>M197</u>	3007SG
	PROJECT IDEN	<u> FIFICATION</u>						
	Task #: <u>E18</u>			Colorado			viation: None	
	Date: 3/12/20 User: HR1	<u>025</u> Coi	unty:]	El Paso		Fil	ename: E18	
	Agency or o	organization name:	DRM	IS				
	HOURLY EQUIP	PMENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
					ent Description			
			craper:	Cat 623	3G			
_			Dozer:	NA				
	Suppo	ort Equipment -Loa	a Area: p Area:	NA Cat D6	T I CP			
	Road Ma	intenance –Motor (NA NA	1 LOI			
		-Water		NA				
	Cost Breakdown:	Scraper Wo	·k Toom		Support Equi	nmant	Maintenance	Equipment
	Cost Breakdown:	Scraper Wol	Do	zer	Load Area	Dump Area	Motor Grader	Water Truck
%I	Utilization-machine:	100		NA	NA	100	NA	NA
	wnership cost/hour:	\$265.74		NA	NA	\$99.72	NA	NA
	Operating cost/hour:	\$194.31		NA	NA	\$71.22	NA	NA
	%Utilization-ripper:	NA		NA	NA	NA	NA	NA
	per own. cost/hour:	NA		NA	NA	\$0.00	NA	NA
	ipper op. cost/hour:	NA		NA	NA	\$0.00	NA	NA
	Operator cost/hour:	\$57.52		NA	NA	\$40.04	NA	NA
	Unit Subtotals:	\$517.57		NA	NA	\$210.98	NA	NA
	Number of Units:	4		0	0	1	0	(
	Group Subtotals:	Work:	\$2,07	70.28	Support:	\$210.98	Maint:	\$0.00
	Total work team cost	t/hour: \$2,281.26						
	MATERIAL QUA	ANTITIES						
	Initial volume:	25,420		CCY	Swell fact	tor: <u>1.266</u>		
	Loose volume:	32,177		LCY				
	Sou	rce of estimated vo	lume:		pdated AM-03 E	xhibit L		
	Source of	of estimated swell f	actor:	Cat Han	dbook			
	HOURLY PROD	<u>UCTION</u>						
					Scraper B	owl (volume) Bas	is:	
	Material weight:	2,700 lbs/LCY			Struck	Volume: _18.00	L	CY
N	Material description:	Sand and clay - I	oose		-	Volume: 23.00		CY
	Rated Payload:	55,200 pounds			Average	Volume: 20.50		CY CY
	Pavioad Capacity:	/U 44 L U Y			Addition (anachy: Zu 44		l T

Site Altitude: 5800 feet

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\sim		-	11110

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \\ \end{array}$

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	3000.00	2.00	5.00	7.00	944	3.23

Haul Time: 3.23 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	-2.00	5.00	3.00	2666	1.33

Return Time: 1.33 minutes Total Scraper team cycle time: 6.16 minutes Adjusted for job conditions: 165.28 LCY/Hour Selected Number of Scrapers: Scraper(s) 4 Adjusted single scraper team (unit) hourly production: 661.13 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 661.13 LCY/Hour Unadjusted unit production/hour: 199.13 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	48.67	Hours
Unit cost:	\$3.451	/LCY	Total job cost:	\$111,028	

MOTOR GRADER WORK

Task description:	Grade Embankment-W.s	side E. Sed basin (v	wash fines pond)	
: Daniels Sand Pit 2	Permit Actio	n: TR11	Per	mit/Job#: <u>M1973007SG</u>
PROJECT IDENTI	FICATION			
Task #: E19 Date: 3/12/2025 User: HR1	State: Colora County: El Paso			viation: None lename: E19
Agency or org	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machin	ne: CAT 14M		Horsepower:	259
Ripper Attachme	nt:		Shift Basis:	1 per day
			Data Source:	(CRG)
Cost Breakdown:				
			Utilization %	
	nership Cost/Hour:		NA 100	
	erating Cost/Hour:	\$89.13 \$0.00	100 N A	
	nership Cost/Hour:erating Cost/Hour:	ΦΩ ΩΩ	NA	
	erating Cost/Hour: perator Cost/Hour:	\$56.70	NA	
	al Unit Cost/Hour:	\$275.64	,	
	al Fleet Cost/Hour:	\$275.64		
	a to be graded or ripped: 10.			acres
Sour	rce of estimated acreage: TR	11 Dam Raise Stud	y Grading Map Fig	g. 5 & Fig. 7
HOURLY PRODUC	<u>CTION</u>			
	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mpl	n) - 1.5
	Selected Blade Angle:	0	degrees	
Widtl	Effective Blade Length: of blade overlap per pass:	14.00 2.00	feet feet	
	g or ripping width per pass:	12.00	feet	
	ed Hourly Unit Production:	2.1818	acres/hou	r
Job Condition Correction	<u> </u>		te Altitude: <u>5800</u> fe	
	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: 1.9636	acres/Hour	
	Adjusted Hourly Fleet Production		acres/Hour	
JOB TIME AND CO	<u>OST</u>			
Fleet size:	1 Grader(s)	Total job time	5.09	Hours
Unit cost: \$1	40.37 per acre	Total job cost	: \$1,404	
Ψ1	per dere	1 otal job cost	. Ψ1,404	

SCRAPER TEAM WORK

Task description:	Replace T	S on Pit F	loor				
Site: Daniels Sand P	it 2	Permit	Action:	TR11	Per	mit/Job#: <u>M197</u>	3007SG
PROJECT IDE	<u>NTIFICATION</u>						
Task #: <u>P09</u>			Colorado			viation: None	
Date: 3/12 User: HR1		unty: <u>E</u>	El Paso		Fil	lename: P09	
Agency o	or organization name	DRM:	S				
HOURLY EQU	IPMENT_			COSTSI	nift basis: 1 per d	l <u>ay</u>	
				ent Description			
		Scraper:	Cat 623	BG .			
Cun	port Equipment -Loa	-Dozer:	NA NA				
Sup		p Area:	NA				
Road N	Maintenance – Motor		CAT 1	4M			
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wo	rk Toom		Support Equip	amont	Maintenance	Equipment
Cost Dreakdown.	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine			NA	NA	NA	100	NA.
Ownership cost/hour			NA	NA	NA	\$129.81	NA NA
Operating cost/hour			NA	NA	NA	\$89.13	NA NA
%Utilization-ripper			NA	NA	NA	NA	NA NA
Ripper own. cost/hour			NA	NA	NA	\$0.00	NA NA
Ripper op. cost/hour			NA	NA	NA	\$0.00	NA NA
Operator cost/hour			NA	NA	NA	\$56.70	NA NA
Unit Subtotals			NA	NA	NA	\$275.64	NA NA
Number of Units	, , , , , , , , , , , , , , , , , , , ,		0	0	0	1	(
Group Subtotals		\$2,07	-	Support:	\$0.00	Maint:	\$275.64
	ost/hour: \$2,345.92			11			
MATERIAL Q	<u>UANTITIES</u>						
Initial volum			CCY	Swell fact	or: 1.215		
Loose volum	e: 71,939		LCY				
S	ource of estimated vo	_		pdated AM-03 Ex	khibit L		
Sourc	ee of estimated swell	factor:	Cat Han	dbook			
HOURLY PRO	<u>DUCTION</u>						
				Scraper Bo	owl (volume) Bas	is:	
Material weigh	t: 1,600 lbs/LCY			Struck '	Volume: 18.00	L	CY
Material description	n: Top Soil			Heaped '			CY
Rated Payload				Average			CY
Payload Capacity	v: 34 50 LCY			Adjusted C	apacity: 20.50	I.0	CY

Site Altitude: 5800 feet

a			
O.Y.C.	А	Tim	ρ,
	·	1 11111	v.

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \end{array}$

<u>Job Condition Correction:</u>

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	1292	1.70

Haul Time: 1.70 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutes Total Scraper team cycle time: 4.42 minutes Adjusted for job conditions: 230.97 LCY/Hour Selected Number of Scrapers: 4 Scraper(s) Adjusted single scraper team (unit) hourly production: 923.89 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 923.89 LCY/Hour

Unadjusted unit production/hour: 278.28 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	77.87	Hours
Unit cost:	\$2.539	/LCY	Total job cost:	\$182,665	

REVEGETATION WORK

Task description:	Seed Pit Floor					
Daniels Sand Pit 2	Per	Permit Action: TR11 Permit/Job#:				: <u>M1973007SC</u>
PROJECT IDENTIF	<u>TICATION</u>					
Task #: P10	State:	Colorado		Ab	breviation:	None
					P10	
User: HR1						
Agency or orga	anization name:DR	RMS				
FERTILIZING						
laterials						T
Description		Units / Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
				Tot	al Fertilizer Materials Cost/Acre	\$0.00
pplication Description						Cost /Acre
						\$
		Total	Fertilizer A	Applicatio	n Cost/Acre	\$0.00
CILLING						
Description						Cost /Acre
	eep (MEANS 32 91 13	3.23 6100)				\$117.61
			Т	otal Tillin	g Cost/Acre	\$117.61
SEEDING						
				Rate –		
Seed Mix				PLS LBS /	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blacky	vol1			Acre	17.86	\$26.44

	LBS / Acre	per SQ. FT	
Switchgrass - Blackwell	2.00	17.86	\$26.44
Big Bluestem - Native	4.00	11.94	\$62.43
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Sand Bluestem - Garden Co.	4.00	10.38	\$96.91
Pubescent Wheatgrass - Greenleaf	2.00	4.13	\$9.52
Tall Wheatgrass - Jose	3.00	5.44	\$17.24
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
		78.66	\$240.06

	Totals Seed Mix	17.00	
Application			Cost /Acre

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

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/Ac	cre \$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 110.1 Cost /Acre: \$594.31
Estimated Failure Rate: 25% Cost /Acre*: \$594.31
*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$65,433.53

Reseeding Job Cost: \$16,358.38

Total Job Cost: \$81,792

220.00

SCRAPER TEAM WORK

Task description:	Replace T	S on Pit Slo	pes				
Site: Daniels Sand Pi	t 2	Permit A	ction:	TR11	Peri	mit/Job#: <u>M1973</u>	3007SG
PROJECT IDE	NTIFICATION						
Task #: P11	9	State: Col	lorado		Abbre	viation: None	
Date: 3/12/	2025 Co	unty: El l	Paso		Fil	ename: P11	
User: HR1							
Agency o	r organization name:	DRMS					
HOURLY EQU	IPMENT_			COSTS	hift basis: 1 per d	<u>ay</u>	
				ent Description			
			Cat 623 NA	3G			
Supi	oort Equipment -Loa		NA NA				
	-Dum	p Area: N	NΑ				
Road M	Iaintenance – Motor		CAT 14 NA	4M			
	- water	Truck.	NA.				
Cost Breakdown:	Scraper Wo	rk Team		Support Equi	pment	Maintenance	
	Scraper	Dozer		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	100		NA	NA	NA	100	NA
Ownership cost/hour:	\$265.74		NA	NA	NA	\$129.81	NA
Operating cost/hour	\$194.31		NA	NA	NA	\$89.13	NA
%Utilization-ripper	. NA		NA	NA	NA	NA	NA
Ripper own. cost/hour			NA	NA	NA	\$0.00	NA
Ripper op. cost/hour			NA	NA	NA	\$0.00	NA
Operator cost/hour			NA	NA	NA	\$56.70	NA
Unit Subtotals:	,		NA	NA	NA	\$275.64	NA
Number of Units:			0	0	0	1	(
Group Subtotals:	Work:	\$2,070.2	28	Support:	\$0.00	Maint:	\$275.64
Total work team co	st/hour: \$2,345.92						
MATERIAL QU	JANTITIES						
Initial volume			CY	Swell fac	tor: 1.215		
Loose volume	95,167	Lo	CY				
	ource of estimated vo			pdated AM-03 E	xhibit L		
Source	e of estimated swell	factor: <u>Ca</u>	at Hand	dbook			
HOURLY PRO	<u>DUCTION</u>						
				Scraper B	owl (volume) Bas	is:	
Material weight	: 1,600 lbs/LCY			Struck	Volume: 18.00	LO	CY
Material description	: Top Soil			Heaped	Volume: 23.00	LO	CY
Rated Payload Payload Capacity				Average Adjusted (CY CY
rayioau Cadaciiv	. 34.30 LC I			Adjusted (Ladacity. 20.50	L	∠ I

Site Altitude: 5800 feet

Cvc	ച	Гim	Δ,

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \end{array}$

<u>Job Condition Correction:</u>

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	2100.00	3.00	5.00	8.00	822	2.58

Haul Time: 2.58 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutes Total Scraper team cycle time: 5.30 minutes Adjusted for job conditions: 192.62 LCY/Hour Selected Number of Scrapers: 4 Scraper(s) Adjusted single scraper team (unit) hourly production: 770.49 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 770.49 LCY/Hour

Unadjusted unit production/hour: 232.08 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	123.52	Hours
Unit cost:	\$3.045	/LCY	Total job cost:	\$289,757	

REVEGETATION WORK

Task description: See	d Pit Slopes					
e: Daniels Sand Pit 2	Permit Action: TR11 Permit/Job#:			M1973007SG		
PROJECT IDENTIFICATI	<u>ON</u>					
Task #: P12	State: Colo	orado		Abb	reviation:	None
Date: 3/12/2025	County: El Paso				Filename:	P12
User: HR1						
Agency or organization	n name: DRMS					
FERTILIZING						
Materials						
Description		Units / Acre	Unit	Cost	t / Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		Tota	l Fertilizer	Application	n Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
	Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)					\$117.61
			7	Fotal Tilling	g Cost/Acre	\$117.61
SEEDING						
Seed Mix				Rate – PLS	Seeds per SQ.	Cost /Acre

Big Bluestem - Native

Sand Lovegrass - Bend Blue Grama - Native

Little Bluestem - Native

Sideoats Grama - Butte

Sand Bluestem - Garden Co.

Western Wheatgrass - Native

Prairie Sandreed - Goshen

Pubescent Wheatgrass - Greenleaf

Thickspike Wheatgrass - Critana

5.00 17.68 \$40.74 3.00 7.58 \$27.02 2.00 12.53 \$34.05

FΤ

5.97

8.16

5.97

3.28

15.56

10.33

17.22

LBS/

Acre

2.00

0.50

0.50

1.00

1.00

6.00

5.00

\$31.21

\$8.71

\$10.66

\$15.39

\$24.16

\$145.36

\$23.80

\$272.56

	Totals Seed Mix	26.00	104.28	\$361.10
Application				
Description				Cost /Acre
Broadcast seeding [DMG]				\$272.56

Total Seed Application Cost/Acre

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:
 97.1
 Cost /Acre:
 \$751.27

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$751.27

*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$72,948.32

Reseeding Job Cost: \$18,237.08

Total Job Cost: \$91,185

Job Hours: 200.00

TRUCK/LOADER TEAM WORK

Task description:	Backfill	West Sediment I	Basin			
Site: Daniels Sand P	Pit 2	Permit Actio	on: TR11		Permit/Job#: M	1973007SG
PROJECT IDE	NTIFICATION					
Task #:		State: Colora		Ab	breviation: No	
Date: $\frac{3/12}{\text{User:}}$		County: El Paso	0		Filename: W0	01
Agency	or organization nan	ne: DRMS				
HOURLY EQU	IPMENT COST	<u> </u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
	Truck Loader Tea		740 Г 980Н			
Sur	pport Equipment -L		1 960H			
	-Dı	imp Area: Cat	D8T - 8SU			
Road 1	Maintenance – Mote					
	-wa	ter Truck: NA				
Cost Breakdown	: Truck/Loa	ıder Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$108.25	\$69.00	NA	\$173.32	NA	NA
Operating cost/hour:	\$79.54	\$60.57	NA	\$109.71	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$24.82	\$56.84	NA	\$40.04	NA	NA
Unit Subtotals:	\$212.61	\$186.41	NA	\$323.07	NA	NA
Number of Units:	2	1	0	1	0	0
Group Subtotals:	Work:	\$611.63	Support:	\$323.07	Maint:	\$0.00
Total work team c	ost/hour: \$934.70					
MATERIAL Q	<u>UANTITIES</u>					
Initial volum		CCY	Swell	factor: 1.000		
Loose volum	ne: 45,49	6 LCY				
	Source of estimated		B, Exhibit L			
Sourc	ce of estimated swe Material Purch		landbook			
		tal Cost: \$0.00				
HOURLY PR	ODUCTION					
Truck Capacity:						
Truck Payload (we						
Material		.11.5	Pounds/LCY			
	cription: Sand and Payload: 87,000	nd gravel - Dry	Pounds			
Payload C			LCY			

Truck Travel (Haul & Return) Time:

penetration 5.0

Truck Bed (volume) Basis:						
Struck Volume:	24.20	LCY				
Heaped Volume: _	31.40	LCY				
Average Volume: _	27.80	LCY				
Adjusted Volume: _	30.00	LCY				
Fina	l Truck Volum	ne Based on Number of	of Loader Passes:	29.25	LCY	
Loading Tool Capacity						
Datad Compaitry	7.500	LCY (heaped)		et Size Class: N	ÍΑ	_
Rated Capacity: Bucket Fill Factor:	0.975		el (95% - 100%) 0.	075		_
Adjusted Capacity:	7.313	LCY	C1 (93 /0 - 100 /0) 0.	913		_
Job Condition Correction	S :	S	Site Altitude (ft.): <u>5</u>	800 feet		
	Truck	Loader	Source			
Altitude Adj:	0.960	1.000	(CAT HB)			
Job Efficiency:	0.830	0.830	(CAT HB))		
Net Correction:	0.797	0.830				
Loading Tool Cycle Time Excavators and Front Shov	_	er of Loading Tool P	asses Required to F	Fill Truck:	I	oasses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders	els: vs. Job Conditi within this Bas - Material Desc	on Rating: NA sic Rating: NA	asses Required to F	fill Truck:	_4I	oasses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.	els: vs. Job Conditi within this Bas Material Desc	on Rating: NA sic Rating: NA cription:	asses Required to F			passes
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA	els: vs. Job Conditi within this Bas Material Desc):	on Rating: NA sic Rating: NA cription: NA		Dump: 0.100)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders	els: vs. Job Conditi within this Bas Material Desc):	on Rating: NA sic Rating: NA cription: NA		Dump: 0.100 naneuver): 0) minu	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors	els: vs. Job Conditi within this Bas Material Desc): - Unadjusted E	on Rating: NA sic Rating: NA NA cription: NA Maneuver: NA Sasic Loader Cycle Taxon	ime (load, dump, m	Dump: 0.100 naneuver): 0 Factor (min.)) .550 minu Source	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Conditi within this Bas Material Desc): - Unadjusted E	on Rating: NA sic Rating: NA oription: Maneuver: NA Basic Loader Cycle To one of applice	ime (load, dump, m	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .550 minu Source (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	els: vs. Job Conditi within this Bas - Material Desc): - Unadjusted E No adjustme Conveyor of	on Rating: NA sic Rating: NA oription: NA original origi	ime (load, dump, m	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000	Source (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	els: vs. Job Conditi within this Base Material Desc): - Unadjusted E No adjustme Conveyor of No adjustme	on Rating: NA sic Rating: NA oription: NA original origi	ime (load, dump, m	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000	Source (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op	on Rating: NA sic Rating: NA cription: NA Maneuver: NA Basic Loader Cycle Telephore ent - factor not applicate dozer piled 10 ft. hi ent - factor not applicate operation -0.04	ime (load, dump, meable 0.00 gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op	Maneuver: NA Basic Loader Cycle Telephore Today (1984) Maneuver: NA Basic Loader Cycle Telephore Today (1984) Basic Loader Today (1984) Basic Loader Cycle Telephore Today (1984) Basic Loader Today (1984)	ime (load, dump, meable 0.00 gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000	Source (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op	Maneuver: NA Basic Loader Cycle Telephone factor not applicate of the factor not appl	ime (load, dump, m cable 0.00 gh and up 0.00 cable 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op	Maneuver: NA Basic Loader Cycle Ti ent - factor not applice r dozer piled 10 ft. hi ent - factor not applice beration -0.04 ent - factor not applice Net Cycle Ti Adjusted Load	ime (load, dump, m cable 0.00 gh and up 0.00 cable 0.00 cable 0.00 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040	Source (Cat HB) minutes	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op	Maneuver: NA Basic Loader Cycle Ti ent - factor not applice r dozer piled 10 ft. hi ent - factor not applice beration -0.04 ent - factor not applice Net Cycle Ti Adjusted Load	ime (load, dump, m cable 0.00 gh and up 0.00 cable 0.00 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: vs. Job Conditi within this Bas Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op No adjustme	Maneuver: NA Basic Loader Cycle Ti ent - factor not applice r dozer piled 10 ft. hi ent - factor not applice beration -0.04 ent - factor not applice Net Cycle Ti Adjusted Load	ime (load, dump, m cable 0.00 gh and up 0.00 cable 0.00 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Excavators and Front Show Machine Cycle Time Selected Value 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:	els: vs. Job Conditi within this Base Material Desc : - Unadjusted E No adjustme Conveyor of No adjustme Constant op No adjustme constant op No adjustme constant op No adjustme constant op No adjustme	Maneuver: NA Basic Loader Cycle Ti ent - factor not applice r dozer piled 10 ft. hi ent - factor not applice reaction -0.04 ent - factor not applice Net Cycle Ti Adjusted Load Net Load	ime (load, dump, meable 0.00 gh and up 0.00 gable 0.00 gable 0.00 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510 1.630	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	1845	1.141

Haul Time: **1.141** minutes

Return Route:

recturn re	Return Route.						
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1500.00	0.00	5.00	5.00	3005	0.738	

Return Time: 0.738 minutes Total Truck Cycle Time: minutes 5.176

Selected Number of Trucks: 2 Truck(s)

Loading Tool unit

Optimal No. of Trucks:

Adjusted for job efficiency: 645.96 LCY/Hour Production 778.27 LCY/Hour Truck Unit Production Adjusted for job efficiency: 281.44 LCY/Hour 339.09 LCY/Hour

> Adjusted hourly truck team production: 562.88 LCY/Hour Adjusted single truck/loader team production: 562.88 LCY/Hour LCY/Hour 562.88

Adjusted multiple truck/loader team production:

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **80.83** Hours

Total job cost: **\$75,549** Unit cost: \$1.661 /LCY

2 Truck(s)

TRUCK/LOADER TEAM WORK

Site: Daniels Sand Pit	2	Permi	t Actio	on: TR11		Permit/Job#:	M197300	7SG
	TITICA TION							
PROJECT IDEN	<u>HIFICATION</u>	•	a .					
Task #: W02	Task #: <u>W02</u> State: <u>Color</u> Date: <u>3/12/2025</u> County: El P				At	breviation: _ Filename:	None W02	
User: HR1	023	county.	EI Fas	0		riielialile.	W 02	
	organization nan	ne: DRM	IS					
HOURLY EQUI	PMENT COST	<u> </u>			Shift bas	sis: 1 per day		
		_	I	Equipment Descri	ption			
T	ruck Loader Tea	m -Truck:	Cat		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_
		-Loader:		Г 980Н				<u> </u>
Suppo	ort Equipment -L		NA					
Pood Me	-Du aintenance –Moto	ımp Area:	NA	Г 14М				_
Road Ma		ter Truck:	NA	1 14IVI				_
-	****	ter frack.	1171					_
Cost Breakdown:	Truck/Loa	ader Team		Support l	Equipment	Mainte	enance Equi	
	Truck	Loader		Load Area	Dump Area	Motor Grad	ler Water	r Truck
6Utilization-machine:	100		100	NA	NA	1	00	NA
Ownership cost/hour:	\$108.25	\$6	9.00	NA	NA	\$129.	81	NA
Operating cost/hour:	\$79.54	\$6	0.57	NA	NA	\$89.	13	NA
%Utilization-riper:	NA		0	NA	NA	N	NA	NA
Ripper own. cost/hour:	NA	\$	0.00	NA	NA	\$0.	00	NA
Ripper op. cost/hour:	NA	\$	0.00	NA	NA	\$0.	00	NA
Operator cost/hour:	\$24.82	\$5	6.84	NA	NA	\$56.	70	NA
Unit Subtotals:	\$212.61	\$18	6.41	NA	NA	\$275.	64	NA
Number of Units:	3		1	0	0		1	C
Group Subtotals:	Work:	\$824.24		Support:	\$0.00	Mai	nt: \$275.	64
Total work team cos	t/hour: \$1,099. 8	88						
MATERIAL QUA	ANTITIES							
•			COV	C .11	f			
Initial volume: Loose volume:	13,955 19,93	6	CCY LCY	Swell	factor: 1.429			
				2 F 1 H	T			
	rce of estimated of estimated	_		3, Exhibits C-2 & Iandbook	L			_
Source	Material Purch		\$0.00					_
	To	otal Cost:	\$0.00					_
								
HOURLY PRO	<u>DUCTION</u>							
Truck Capacity:								
Truck Payload (weig								
Material w		••		Pounds/LCY				
Descri Rated Pay				Pounds				_
Kated Pay	y10au. <u>87,000</u>			rounus				

LCY

Payload Capacity: 54.38

Truck Bed (volume) Basis: Struck Volume:	24.20	LCY				
Heaped Volume:	31.40	LCY				
Average Volume:	27.80	LCY				
Adjusted Volume:	31.40	LCY				
<u>, </u>		_				
	al Truck Volun	ne Based on Number	of Loader Passes:	29.25	LCY	
Loading Tool Capacity			Dual	ket Size Class: N	Τ Α	
Rated Capacity:	7.500	LCY (heaped)		ket Size Class: N	iA .	_
Bucket Fill Factor:	0.975		rel (95% - 100%) 0	075		-
Adjusted Capacity:	7.313	LCY	<u> </u>			-
Job Condition Correction	s:	9	Site Altitude (ft.):	5800 feet		
	Truck	Loader	Source			
Altitude Adj:	0.960	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE			
				<u> </u>		
Net Correction:	0.797	0.830				
Excavators and Front Show Machine Cycle Time Selected Value	- vels: vs. Job Condit	ion Rating: <u>NA</u>	asses Required to	Fill Truck:	p	oasses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders	vs. Job Condit vs. Job Condit within this Ba Material Des	ion Rating: NA NA NA	asses Required to			oasses
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min.)	vs. Job Condit vs. Job Condit within this Ba – Material Des):	ion Rating: NA sic Rating: NA cription:				passes
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders	vs. Job Condit vs. Job Condit within this Ba – Material Des):	ion Rating: NA NA NA				passes
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min.)	vs. Job Condit within this Ba Material Des	ion Rating: NA		Dump: 0.100		
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA	vs. Job Condit vs. Job Condit within this Ba – Material Des): – - Unadjusted	ion Rating: NA sic Rating: NA oription: Maneuver: NA Basic Loader Cycle T	ime (load, dump, 1	Dump: 0.100	0.550 minu Source	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Condit within this Ba Material Des): - Unadjusted I	ion Rating: NA asic Rating: NA cription: NA Maneuver: NA Basic Loader Cycle T	ime (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.000	0.550 minu Source (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	vs. Job Condit within this Ba Material Des): - Unadjusted I No adjustm Conveyor of	ion Rating: NA asic Rating: NA cription: NA Maneuver: NA Basic Loader Cycle T aent - factor not application dozer piled 10 ft. hi	ime (load, dump, reable 0.00	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000	0.550 minu Source (Cat HB) (Cat HB)	
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Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condit within this Ba Material Des): - Unadjusted I No adjustm Conveyor of No adjustm Constant of	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T aent - factor not applic or dozer piled 10 ft. hi nent - factor not applic peration -0.04 aent - factor not applic Net Cycle Ti	Cable 0.00 Igh and up 0.00 Cable 0.00 Cable 0.00 Cable 0.00 Cable 0.00 Cable 0.00	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040	Source (Cat HB) minutes	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condit within this Ba Material Des): - Unadjusted I No adjustm Conveyor of No adjustm Constant of	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T ent - factor not applicate or dozer piled 10 ft. his ent - fac	cable 0.00 gh and up 0.00 cable 0.00 cable 0.00	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000	Source (Cat HB)	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condit within this Ba Material Des): - Unadjusted I No adjustm Conveyor of No adjustm Constant of	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T ent - factor not applicate or dozer piled 10 ft. his ent - fac	Time (load, dump, reable 0.00 gh and up 0.00 cable 0.00 cable 0.00 ime Adjustment: der Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condit within this Ba Material Des : - Material Des : - Unadjusted I No adjustm Conveyor of No adjustm Constant of No adjustm	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T ent - factor not applicate or dozer piled 10 ft. his ent - fac	cable 0.00 gh and up 0.00 cable 0.00 cable 0.00 ime Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Excavators and Front Show Machine Cycle Time Selected Value 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:	vs. Job Condit within this Ba Material Des): - Unadjusted I No adjustm Conveyor of No adjustm Constant of No adjustm Constant of No adjustm	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T ment - factor not applicate or dozer piled 10 ft. his ment - factor not applicate or the control of the cont	cable 0.00 gh and up 0.00 cable 0.00 cable 0.00 ime Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.510 1.630	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	
Excavators and Front Show Machine Cycle Time Selected Value 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	vs. Job Condite within this Ba Material Des : Unadjusted I No adjustm Conveyor of No adjustm Constant of No adjustm Constant of No adjustm 1.630	ion Rating: NA asic Rating: NA cription: Maneuver: NA Basic Loader Cycle T ment - factor not applicate or dozer piled 10 ft. his ment - factor not applicate or the control of the cont	cable 0.00 gh and up 0.00 cable 0.00 cable 0.00 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.510 1.630 for site altitude:	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.625	ntes - - -

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5400.00	0.00	3.00	3.00	3005	2.589

Haul Time: 2.589 minutes

Return Route:

ixcuiii ixc	Return Route.						
Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	5400.00	0.00	3.00	3.00	3005	1.964	

Return Time: 1.964 minutes
Total Truck Cycle Time: 7.850 minutes

Loading Tool unit

Production ______ T78.27 LCY/Hour Adjusted for job efficiency: _____ 645.96 LCY/Hour Truck Unit Production

223.58 LCY/Hour Adjusted for job efficiency: 185.57 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 556.71 LCY/Hour Adjusted single truck/loader team production: 556.71 LCY/Hour Adjusted multiple truck/loader team production: 556.71 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **35.81** Hours

Unit cost: \$1.976 /LCY Total job cost: **\$39,388**

REVEGETATION WORK

Task description:	Seed West Sediment	Basin				
Daniels Sand Pit 2	Permit A	Action: TR1			Permit/Job#:	M1973007SG
PROJECT IDENTII	FICATION .					
Task #: W3A Date: 3/12/202 User: HR1		lorado Paso				None W3A
Agency or org	anization name: DRMS					
FERTILIZING						
Materials		T T */ /			1	
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		Total	Fertilizer	Application	n Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
Disc harrowing, 6" d	leep (MEANS 32 91 13.23 6	5100)				\$117.61
			7	Fotal Tilling	g Cost/Acre	\$117.61
SEEDING						
Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre

Switchgrass - Blackwell

Big Bluestem - Native

Sand Lovegrass - Bend

Tall Wheatgrass - Jose

Sand Bluestem - Garden Co.

Pubescent Wheatgrass - Greenleaf

Thickspike Wheatgrass - Critana

Blue Grama - Native

\$26.44

\$62.43

\$8.71

\$10.66

\$96.91

\$9.52

\$17.24

\$240.06

\$8.15

2.00

4.00

0.50

0.50

4.00

2.00

3.00

1.00

17.86

11.94

17.22

8.16

10.38

4.13

5.44

3.54

78.66

	Description		Cost /Acro
A	pplication		
	Totals Seed Mix	17.00	

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
Т	otal Seed Application Cost/Acre	\$236.64

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/Ac	cre \$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 17.3
 Cost /Acre:
 \$594.31

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$594.31

*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$10,281.56

Reseeding Job Cost: \$2,570.39

Total Job Cost: Job Hours: \$12,852

40.00

REVEGETATION WORK

Task description:	Forest/Shrub West Sediment Ba	asin			
e: Daniels Sand Pit 2	Permit Action: _T	Permit Action: TR11			: <u>M1973007SG</u>
PROJECT IDENTIFI	CATION				
Task #: W3B	State: Colorado		Abb	reviation:	None
Date: 3/12/2025	County: El Paso				W3B
User: HR1					
Agency or organ	nization name: DRMS				
FERTILIZING					
Materials	77.1/	,			1
Description	Units Acre	Unit	Cost	/ Unit	Cost /Acre
			\$		\$
			Tota	nl Fertilizer Materials Cost/Acre	\$0.00
				CUSUACIE	φυ.υυ
Application					
Description					Cost /Acre
					\$
	To	otal Fertilizei	· Application	n Cost/Acre	\$0.00
<u> </u>					
Description					Cost /Acre
•					¢
					\$
			Total Tilling	Cost/Acre	\$0.00
			100011111119	, cosuriere	\$0.00
SEEDING				T	
Sood Mire			Rate –	Seeds	Cost /Acre
Seed Mix			PLS LBS /		Cust /ACTE
			Acre	per SQ. FT	
					\$
		1 0 130	0.00	0.00	
	Tota	ls 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
			\$	\$
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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
	\$212.50				

JOB TIME AND COST

 No. of Acres:
 13.1
 Cost /Acre:
 \$212.50

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$212.50

*Selected Replanting Work Items: NURSERY

Initial Job Cost: \$2,783.75

Reseeding Job Cost: \$1,391.88

Total Job Cost: \$4,176

Job Hours: 40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b / Demob Equi _]	pment		
te: Daniels Sand Pit 2	Permi	Action: TR11	Permit/Jol	b#: <u>M1973007SG</u>
PROJECT IDENTIFICATI	<u>ON</u>			
Task #: Z99 Date: 3/12/2025 User: HR1		olorado 1 Paso	Abbreviation: Filename:	None Z99
Agency or organization	n name: DRMS	S		
EQUIPMENT TRANSPOR	T RIG COST			
				1 per day CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Desc	ription: C		NG GOOSENECK, DROP DEC AILER (25T, 50T, AND 100T)	•
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94	
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65	
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$59.44

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Cat 623G	41.35	\$265.74	\$122.78	4	\$1,554.08	\$491.12	\$1,000.00
Cat 740	36.49	\$108.25	\$122.78	3	\$693.09	\$368.34	\$750.00
CAT 14M	23.57	\$129.81	\$59.44	1	\$189.25	\$59.44	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor							

\$23.53

\$122.78

\$23.53

\$125.64

Subtotals: \$3,024.76 \$1,223.90 \$2,750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 5.00 miles
Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$9,468.91

\$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.11	0.11
Return Time (Hours):	0.11	0.11
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.72	0.22

JOB TIME AND COST

Total job time:	1.44	Hours
Total job cost:	\$9.469	