



Himes Consulting LLC

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March 1, 2024  
Reference No. 22-08

Arizona State Mine Inspector  
Amanda Lothner, Reclamation Specialist  
1700 W. Washington, Suite 403  
Phoenix, AZ 85007-2805

Re: Reclamation Plan for Tri County Materials, Inc. Dos Condados Material Source

Dear Ms. Lothner:

Enclosed please find two copies of the revised cost estimate for the Reclamation and Closure Plan for Tri County Materials, Inc. Dos Condados Material Source in response to your December 1 Technical Comments.

We changed the cost estimate methodology to use Arizona Rock Products Association (ARPA) rates with adjustment for inflation as this method has been recently approved by the State Mine Inspector in other recent Reclamation Plans such as Desert Construction's Meadow Creek site.

Please feel free to contact me in regards to any questions.

Sincerely,

A handwritten signature in cursive script that reads "Jill A. Himes".

HIMES CONSULTING, LLC  
Jill A. Himes

Cc: Peter Vlassis, Tri County Materials, Inc.

**Table 2**

**Reclamation Cost Estimation**

DOS CONDADOS MATERIAL SOURCE

Excavation Area: 51.1 acres, depth varies 0 - 60', excavation area limits will be sloped to a 3:1 contour. No further reclamation will be required on slopes

Processing and stockpile area: 2 acres

Concrete pads or infrastructure at the site: There are no concrete pads or infrastructure at the site, no removals will be needed.

Security berms will be left in place.

**Proposed Reclamation Cost Estimation Summary - WorkSheet**

Reclamation Item	Units	Description	Suggested Cost	Number of Units	Reclamation Cost
<b>Pit Walls and Floor</b>					
	Cu. Yd.	Re-Grading and Topsoiling Costs	0.53	-	\$ -
	Acre	Revegetation Cost (Disc)	728.40	51	\$ 37,200
	Acre	Revegetation Cost (Hydro-seed)	1,410.00	-	\$ -
	Each	Containerized Trees and Shrubs	12.00	-	\$ -
<b>Processing and Stockpile Area</b>					
	Acre	Re-Grading and leveling	728.40	-	\$ -
	Acre	Revegetation Cost (Disc) *	728.40	-	\$ -
	Acre	Revegetation Cost (Hydro-seed)	1,410.00	-	\$ -
	Each	Containerized Trees and Shrubs	12.00	-	\$ -
<b>Roads (Access)</b>					
(Roads with Side Slope < 30%)	Linear Ft.	Re-Grading and Topsoiling Costs	2.04	-	\$ -
	Acre	Regrading - Ripping	728.40	-	\$ -
	Acre	Revegetation Cost (Hydro-seed)	1,410.00	-	\$ -
<b>Structures</b>					
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Metal Building	4.08	-	\$ -
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Masonry Block Building	4.20	-	\$ -
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Concrete Building	19.03	-	\$ -
	Linear Mile	Powerline Removal (Single Pole Utility)	12,000.00	-	\$ -
	each	Transformer Removal	6,000.00	-	\$ -
	Linear Ft.	Demolition - Chain Link Fencing	4.16	-	\$ -
	Linear Ft.	Demolition - Barb Wire Fencing (3 strand)	2.33	-	\$ -
	Linear Ft.	Removal - 15" Culvert	12.35	-	\$ -
	Linear Ft.	Removal - 36" Culvert	20.58	-	\$ -
(Break-up and remove)	Sq. Ft.	Demolition - Concrete Pads/Roads 12" Thickness	8.14	-	\$ -
<b>Construction</b>					
	Linear Ft.	Construction - Barb Wire Fencing (3 strand)	2.26	-	\$ -
	Sq. Yard	Install Rip Rap Erosion Lining	28.50	-	\$ -
<b>Material Haulage for Backfill</b>					
Miscellaneous Leveling	Cu. Yard	Truck and Loader - 2000Ft. One Way	1.24	5,000	\$ 6,200
	Cu. Yard	Dozer and Scraper - 1000Ft. One Way	0.86	-	\$ -
<b>Care and Maintenance</b>					
	Ton	Trash Disposal	72.00	5	\$ 400
	Annual	Site Monitor and Reporting	2,400.00	1	\$ 2,400

**Estimated Reclamation Operating and Material (O&M) Cost Sub-Total = \$ 46,200**

<b>Administrative Costs</b>					
% of O&M Cost		Contingency	10%		\$ 4,600
% of O&M Cost		General Mobilization / De-Mobilization	4%		\$ 1,800
% of O&M Cost		Indirect costs	2%		\$ 900
% of O&M Cost		Contractor Profit	10%		\$ 4,600
% of O&M Cost		Contract Administration	10%		\$ 4,600

**Total Estimated Financial Assurance Amount = \$ 62,700**

NOTE: Information used to calculate the reclamation costs were current equipment rental rates from several equipment rental companies from ARPA survey for equipment as well as professional fees associated with reclamation tasks (attached).

**Aggregate Mining Unit Operation**  
**Proposed Reclamation Cost Estimation Summary**

**Inflation 20%**

Reclamation Item	Units	Description	2006 Typical Cost Range	Recommended Cost	2024 Typical Cost Range	Recommended Cost
<b>Pit Walls</b>						
	Cu. Yd.	Re-Grading and Topsoiling Costs	\$ 0.39 - \$ 0.55	\$ 0.44	\$ 0.47 - \$ 0.66	\$ 0.53
	Acre	Revegetation Cost (Disc)	\$ 600 - \$ 900	\$ 607	\$ 720.00 - \$ 1,080.00	\$ 728.40
	Acre	Revegetation Cost (Hydro-seed)	\$ 1,175 - \$ 1,372	\$ 1,175	\$ 1,410.00 - \$ 1,646.40	\$ 1,410.00
	Each	Containerized Trees and Shrubs	\$ 5 - \$ 30	\$ 10	\$ 6.00 - \$ 36.00	\$ 12.00
<b>Stockpiles,Overburden or Fines Areas</b>						
	Cu. Yd.	Re-Grading and Topsoiling Costs	\$ 0.39 - \$ 0.55	\$ 0.44	\$ 0.47 - \$ 0.66	\$ 0.53
	Acre	Revegetation Cost (Disc)	\$ 600 - \$ 900	\$ 607	\$ 720.00 - \$ 1,080.00	\$ 728.40
	Acre	Revegetation Cost (Hydro-seed)	\$ 1,175 - \$ 1,372	\$ 1,175	\$ 1,410.00 - \$ 1,646.40	\$ 1,410.00
	Each	Containerized Trees and Shrubs	\$ 5 - \$ 30	\$ 10	\$ 6.00 - \$ 36.00	\$ 12.00
<b>Roads (Access)</b>						
(Roads with Side Slope < 30%)	Linear Ft.	Re-Grading and Topsoiling Costs	\$ 1.21 - \$ 1.70	\$ 1.70	\$ 1.45 - \$ 2.04	\$ 2.04
(Roads with Side Slope >30%)	Linear Ft.	Re-Grading and Topsoiling Costs	\$ 2.55 - \$ 5.42	\$ 2.60	\$ 3.06 - \$ 6.50	\$ 3.12
	Acre	Revegetation Cost (Disc)	\$ 600 - \$ 900	\$ 607	\$ 720.00 - \$ 1,080.00	\$ 728.40
	Acre	Revegetation Cost (Hydro-seed)	\$ 1,175 - \$ 1,372	\$ 1,175	\$ 1,410.00 - \$ 1,646.40	\$ 1,410.00
<b>Structures</b>						
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Metal Building	\$ 3.03 - \$ 3.40	\$ 3.40	\$ 3.64 - \$ 4.08	\$ 4.08
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Masonry Block Building	\$ 3.50 - \$ 6.06	\$ 3.50	\$ 4.20 - \$ 7.27	\$ 4.20
(Break-up and bury Slab)	Sq. Ft.	Demolition & Removal - Concrete Building	\$ 15.86 - \$ 87.34	\$ 15.86	\$ 19.03 - \$ 104.81	\$ 19.03
	Linear Mile	Powerline Removal (Single Pole Utility)	\$ 10,000 -	\$ 10,000	\$ 12,000.00 -	\$ 12,000.00
	each	Transformer Removal	\$ 5,000 -	\$ 5,000	\$ 6,000.00 -	\$ 6,000.00
	Linear Ft.	Demolition - Chain Link Fencing	\$ 3.47 -	\$ 3.47	\$ 4.16 -	\$ 4.16
	Linear Ft.	Demolition - Barb Wire Fencing (3 strand)	\$ 1.94 - \$ 1.96	\$ 1.94	\$ 2.33 - \$ 2.35	\$ 2.33
	Linear Ft.	Removal - 15" Culvert	\$ 10.29 -	\$ 10.29	\$ 12.35 -	\$ 12.35
	Linear Ft.	Removal - 36" Culvert	\$ 17.15 -	\$ 17.15	\$ 20.58 -	\$ 20.58
(Break-up and bury)	Sq. Ft.	Demolition - Concrete Pads/Roads 12" Thickness	6.78 -	\$ 6.78	\$ 8.14 -	\$ 8.14
<b>Construction</b>						
	Linear Ft.	Construction - Barb Wire Fencing (3 strand)	\$ 1.88 - \$ 4.51	\$ 1.88	\$ 2.26 - \$ 5.41	\$ 2.26
	Sq. Yard	Install Rip Rap Erosion Lining	\$ 23.75 - \$ 54.69	\$ 23.75	\$ 28.50 - \$ 65.63	\$ 28.50
<b>Material Haulage for Backfill</b>						
	Cu. Yard	Truck and Loader - 2000Ft. One Way	\$ 1.03 - \$ 1.12	\$ 1.03	\$ 1.24 - \$ 1.34	\$ 1.24
	Cu. Yard	Dozer and Scraper - 1000Ft. One Way	\$ 0.50 - \$ 0.72	\$ 0.72	\$ 0.60 - \$ 0.86	\$ 0.86
<b>Care and Maintenance</b>						
	Ton	Trash Disposal	\$ 55.00 - \$ 65.00	\$ 60.00	\$ 66.00 - \$ 78.00	\$ 72.00
	Each	Site Monitor and Reporting	\$ 1,500 - \$ 3,000	\$ 2,000	\$ 1,800.00 - \$ 3,600.00	\$ 2,400.00

**Estimated Reclamation Operating and Material (O&M) Cost Sub-Total**

**Est. Reclamation Operating & Material (O&M) Cost Sub-Total**

<b>Administrative Costs</b>						
% of O&M Cost		Contingency	7% - 20%	10%	7% - 20%	10%
% of O&M Cost		General Mobilization / De-Mobilization	1% - 5%	4%	1% - 5%	4%
% of O&M Cost		Indirect costs	2% - 30%	2%	2% - 30%	2%
% of O&M Cost		Contractor Profit	9% - 12%	10%	9% - 12%	10%
% of O&M Cost		Contract Administration	10% - 18%	10%	10% - 18%	10%

**Total Estimated Financial Assurance Amount**

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