



Memorandum

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

Reviewed by: [Signature] Date: 1/15/21
General Manager

DATE: January 22, 2021
TO: General Manager
FROM: Director of Operations
SUBJECT: Purchase of One New TarpArmor Automatic Tarping Machine

RECOMMENDATION: That the Board of Directors 1) Adopt Resolution 2021-02 authorizing the sole source purchase of one new TarpArmor Automatic Tarping Machine to include one additional tarp spool. 2) Accept the proposal (attached) from Southwestern Sales Co, of Rogers, AZ dated December 17, 2020, to provide a TarpArmor automatic tarping machine with additional spool for a total price of \$74,024.94 (including sales tax and freight).

BACKGROUND

The 2020/2021 amended Capital Outlay budget includes funds in the amount of \$75,000 for the purchase of a new automatic tarping machine for landfill operations. With the increase in the use of tarps instead of cover soils, the continuation of utilizing a second tarping machine is necessary to ensure the ability to quickly and consistently deploy and retrieve tarps each day. District staff has determined that Unit LF15, a 2004 diesel powered Tarpomatic automatic tarping machine has reached the end of its useful life as a secondary piece of equipment and should be scheduled for replacement during FY 2020/21.

The District operates a 315 acre, Class III Municipal Solid Waste (MSW) Landfill. Daily vehicle traffic through the scale house is between 500-800 vehicles per day. Currently, the District operates in a 100' x 200' active face. This allows the traffic director, and heavy equipment operator to optimally handle and efficiently dispose of the current incoming tonnage of 2,000 to 3,000 tons per day. The rectangular active face allows the dozer operator to push materials and feed the compactor operator in properly timed volumes. Allowing the compactor to properly layer the waste in 1 to 2 foot layers optimizes compaction.

At the end of the day and with a rectangular active face, the operator places four to six 40 foot by 100 foot tarps (one tarp is 280 square yards) with the dozer to cover the exposed trash on the face. Any exposed litter on the slopes is covered by Alternative Daily Cover (ADC) received during the operating day. It takes the operator 30-45 minutes to place the tarps on top of the trash.

Covering this same active area of 100' x 200' with soil/sand or ADC would require about 800 cubic yards of material or 20 truckloads of hauling. This would require about 8 hours of operator time and use of a loader and haul truck during the day. The cover material would then have to be stripped the next business day before waste materials could be placed on the active face consuming an hour before disposal operations could begin.

Elimination of these soil cover materials serves to save landfill airspace; however, the equipment cannot totally remove all cover soil. About 10% soil cannot be removed or 80 cubic yards per day of valuable lost airspace each day. This equates to 4-20 cubic yard loads of waste materials per day. The active area requires between 6-7 business days of waste fill before the area is deemed to have reached grade. Using tarps saves the District operations 5-6 days of cover operations. Covering slopes would still require the use of ADC. The purchase of a new TarpArmor would continue to save the District valuable landfill airspace, reduce cover operations/costs, increase equipment operator productivity, and minimize leachate volumes.

DISCUSSION

Use of the TarpArmor and tarps at the end of the operating day saves valuable landfill airspace. For the District, more airspace equals more revenue and reduced equipment and operator cover costs. With the TarpArmor, one operator can retrieve and deploy a tarp in 15 minutes. Using 4 tarps equates to 30-45 minutes of operating time versus 8 hours per day of operating/equipment time when hauling actual cover soil, saving thousands of dollars a year.

Staff has elected to sole source this tarping machine purchase for the following reasons;

1. The current tarping machine owned by the District is a Tarpomatic.
2. The Tarpomatic machines have proven to have a spool drive/turning system that is susceptible to damage, The TarpArmor machines utilize a sprocket and gear drive system rather than a cylinder "key" drive that staff believes will be better suited for the wear and tear of our application.
3. A single tarp machine can accommodate multiple spools of tarping material.
4. This purchase includes adapters so we can utilize our existing spools and tarps.
5. The TarpArmor unit includes an onboard camera and remote-control system to eliminate the need for spotter. The operator can see the tarp and line it up perfectly without additional personnel guiding them.
6. Different design incorporates more stability and strength, hoping making it more rugged.
7. The new TarpArmor is compatible with the District's existing Tarpomatic machine's tarping material spools.
8. This compatibility ensures efficiencies, reliability and consistency with daily tarp deployment and removal.
9. Staff review of similar equipment offered no compatibility with existing District equipment.

FINANCIAL IMPACT

Maintaining the use of tarping systems at the District saves in the costs of labor, fuel and maintenance by replacing the hauling and use of daily cover materials. Staff estimates that these savings are approximately \$150-200,000 per year in fuel and maintenance savings and allow for the redirection of labor to daily landfill and site operations. This savings will allow return on investment of the TarpArmor in 6 months. Additionally, with the tarp being waterproof, leachate generation is minimized.

Use of the TarpArmor is essential to efficient and productive operations saving 80 cubic yards of airspace per day or over 20,000 cubic yards per year.

STRATEGIC PLAN

The purchase of this tarping equipment is not related to the District's Strategic Plan, although it facilitates compliance with Federal and State mandated regulations.

CONCLUSION

In reviewing the availability for landfill tarping equipment compatible with the tarping equipment currently owned by the District, staff found no other suitable alternative. It is therefore recommended that the Board of Directors:

- 1) Adopt Resolution 2021-02 authorizing the purchase of a new TarpArmor Automatic Tarping Machine without competitive bidding because of the need for compatibility with existing spooling equipment owned by the District and utilizing a more dependable drive technology.
- 2) Accept the proposal by Southwestern Sales Co to provide a TarpArmor automatic tarping machine with additional spool for a total price of \$74,024.94 (including sales tax and freight). Upon placement of order, delivery time would be 90-120 days.



Tim Brownell

Board of Directors
Monterey Regional Waste Management District

RESOLUTION NO. 2021-02

**A RESOLUTION AUTHORIZING THE PURCHASE OF
LANDFILL TARPING EQUIPMENT WITHOUT COMPETITIVE BIDDING**

WHEREAS, the Monterey Regional Waste Management District has a requirement to cover the landfill daily; and

WHEREAS, using a tarp to provide daily cover efficiently saves landfill space versus using soil; and

WHEREAS, the Monterey Regional Waste Management District desires to obtain equipment compatible with equipment currently owned and in use; and

WHEREAS, when competitive bidding would be unavailing, would not produce an advantage and would, therefore, not be in the public interest, such procedure is not required; and

WHEREAS, information has been provided to the Board to date which indicates that by virtue of special or unique equipment specifications, characteristics and attachments, a proposal from Southwestern Sales best meets the needs of the District and the purchase of similar equipment through competitive bidding would not produce an advantage to the public and would, therefore, not be in the public interest;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Monterey Regional Waste Management District, as follows:

1. That the Board does hereby find that because of special or unique equipment specifications, characteristics and attachments, a proposal from Southwestern Sales for a TarpArmor Automatic Tarping machine would best meet the needs of the District, and purchase of similar equipment through competitive bidding would not produce an advantage to the public and would, therefore, not be in the public interest.
2. That the Board does hereby authorize the purchase of a TarpArmor Automatic Tarping Machine for a total cost of \$74,024.94 (including freight and sales tax) from Southwestern Sales of Rogers, AR as described in that Company's proposal dated December 17, 2020.

PASSED AND ADOPTED at a regular meeting by the Board of Directors of the Monterey Regional Waste Management District duly held on January 22, 2021 by the following votes:

AYES:

NOES:

ABSENT:

Chair of the Board

ATTEST:

Timothy S. Flanagan
General Manager/Secretary of the Board

Quote

SOUTHWESTERN SALES CO.
P. O. BOX 1257
ROGERS. AR 72757-1257
4796366943

Order Number: 0186028
Order Date: 12/17/2020

Salesperson: MSM
Customer Number: 24-MO65

Sold To:
MONTEREY REGIONAL WASTE
MANAGEMENT DISTRICT
P.O. BOX 1670
MARINA, CA 93933
FAX#:(831) 384-3567

Ship To:
MONTEREY REGIONAL WASTE
MANAGEMENT DISTRICT
14201 DEL MONTE BLVD.
MARINA, CA 93933

Confirm To: RANDY EVANGER

Customer P.O.	Ship VIA	F.O.B.	Terms	Expires		
	FLATBED		NET 30	12/31/2020		
Item Number	Unit	Ordered	Shipped	Price	Amount	
TDS40XS 40 FT TARP SYSTEM X-SPOOL	EACH	1	0	61,500.000	61,500.00	
200277 TDS Sprocket & Hardware	EACH	4	0	335.230	1,340.92	
200078 Spool Drive Shaft Adapter	EACH	4	0	295.000	1,180.00	

=PREPAID FREIGHT & ADD TO INVOICE=

Southwestern Sales Co. and tarpARMOR will be
closed on Dec. 24th and 25th. Merry Christmas!

Net Order: 64,020.92
Less Discount: 0.00
Freight: 5,000.00
Sales Tax: 0.00
Order Total: 69,020.92