

Board of Directors
Monterey Regional Waste Management District

RESOLUTION NO. 2017-04

**A RESOLUTION AUTHORIZING THE PURCHASE OF
LANDFILL TARPING EQUIPMENT WITHOUT COMPETITIVE BIDDING
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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 this date which indicates that by virtue of special or unique equipment specifications, characteristics and attachments, a proposal from Tarpomatic Inc. 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 Tarpomatic Inc. 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 Tarpomatic Automatic Tarping Machine for a total cost of \$76,787.17 (including freight and sales tax) from Tarpomatic Inc. of Canton, OH as described in that Company's proposal dated February 6, 2017

PASSED AND ADOPTED at a regular meeting by the Board of Directors of the Monterey Regional Waste Management District duly held on February 17, 2017 by the following votes:

AYES:

NOES:

ABSENT:

Bruce Delgado
Chair of the Board

ATTEST:

Timothy S. Flanagan
General Manager/Secretary of the Board



Memorandum

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

Reviewed by: DA Date: 2/10/17
General Manager

DATE: February 10, 2017
TO: General Manager
FROM: Equipment Maintenance and Site Operations Managers
SUBJECT: Purchase of One New Tarpomatic Automatic Tarping Machine

RECOMMENDATION: That the Board of Directors 1) Adopt Resolution 2017-03 authorizing the sole source purchase of one new Tarpomatic Automatic Tarping Machine to include one additional tarp spool. 2) Accept the proposal (attached) from Tarpomatic Inc. of Canton, Ohio dated February 6, 2017, to provide a Tarpomatic automatic tarping machine with additional spool for a total price of \$76,787.17 (including sales tax and freight).

BACKGROUND

The FY 2016/17 Capital Outlay budget includes funds in the amount of \$90,000 for the purchase of a new automatic tarping machine for landfill operations. With the recent increase and future plans to further increase the use of tarps instead of cover soils, the addition of a second tarping machine is necessary to ensure the ability to timely 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 frontline piece of equipment and should be scheduled for replacement during FY 2016/17. Unit LF15 will require approximately \$3,000 in repairs due to age and environmental deterioration of its drive, electrical and hydraulic component over to past 13 years. This investment will be necessary to ensure Unit LF15 is able to remain reliable in a support role to support the increased daily tarp deployment at the active landfill face once the new tarping machine is on site.

The District operates a 315 acre, Class III Municipal Solid Waste (MSW) Landfill. Daily vehicle traffic through the scale house is between 500-700 vehicles per day. The landfill is currently disposing MSW in Module 5, a 23-acre cell capable of holding 5 million tons. Currently, the District operates in an 80' x 180' active face. This allows the traffic director, and heavy equipment operator to optimally handle and efficiently dispose of the current incoming tonnage of 1,800 to 2,000 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 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. Please refer to Attachment A.

Covering this same active area of 80' x 180' with soil/sand or ADC would require about 600 cubic yards of material or 20 truckloads of haul truck hauling. This would require about 6 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 is to save landfill airspace; however, the equipment cannot totally remove all cover soil. About 10% soil cannot be removed or 60 cubic yards per day of valuable lost airspace each day. This equates to 3-20 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 Tarpomatic 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 Tarpomatic 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 Tarpomatic, one operator can retrieve and deploy a tarp in 15 minutes. Using 4 tarps equates to 30-45 minutes of operating time versus 6 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. A single Tarpomatic machine can accommodate multiple spools of tarping material.
3. The new Tarpomatic is compatible with the District's existing Tarpomatic machine's tarping material spools.
4. This compatibility ensures efficiencies, reliability and consistency with daily tarp deployment and removal.
5. Staff review of similar equipment offered no compatibility with existing District equipment.

FINANCIAL IMPACT

The loader uses an average of 5.0 gallons per hour, the haul truck 6.5 gallons per hour, and the D8T dozer 11 gallons per hour for a total of 22.5 gallons of diesel per hour, which equates to 135 gallons per 6-hour day. With a 6-day business week, this equates to 312 days per year and 42,120 gallons of fuel saved per year. At a rate of \$2.02 per gallon (current price for Red-Dye Diesel), the savings is \$85,082.40 dollars per year. Maintenance costs for a loader are \$16.49 per hour, the articulating dump truck is \$22.59 per hour and the D8T Dozer is \$11.99 per hour for a total of \$51.07 per hour. With the same 6-hour cover operation, this totals \$306.42 per day and \$95,603.04 per year. Fuel and maintenance total savings per year using a Tarpomatic is \$180,686.44. This savings will allow return on investment of the Tarpomatic in 6 months. Other benefits for use of the Tarpomatic is odor control, dust control and improved landfill gas collection with less cover soil use. With the tarp being water proof, leachate generation is minimized. The last benefit is the tarp material is flame resistant and has UV protection for a long working life.

Use of the Tarpomatic is essential to efficient and productive operations saving 60 cubic yards of airspace per day or 18,720 cubic yards per year.

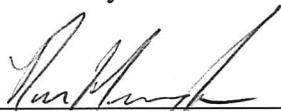
STRATEGIC PLAN

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 2017-03 authorizing the purchase of a new Tarpomatic Automatic Tarping Machine without competitive bidding because of the need for compatibility with existing equipment owned by the District.
- 2) Accept the proposal by Tarpomatic of Canton, Ohio to provide a Tarpomatic automatic tarping machine with additional spool for a total price of \$76,787.17 (including sales tax and freight). Upon placement of order, delivery time would be 90-120 days.



Ron Mooneyham



Michael Rivera

Tarpomatic Inc.

512 45th Street SW
Canton, Ohio 44706

Estimate

Date	Estimate #
2/6/2017	28

Name / Address
MONTERY REGIONAL WMD P.O. BOX 1670 Marina CA 93933 ATT: JIM GRIFFITH

			Project
Description	Qty	Rate	Total
40' Automatic Tarping Machine	1	54,987.00	54,987.00T
40' Tarp Spool Assembly	1	3,950.00	3,950.00T
Wireless Remote Control II	1	3,200.00	3,200.00T
Fab, Brackets	1	2,950.00	2,950.00T
Shipping	1	6,900.00	6,900.00
		Subtotal	\$71,987.00
		Sales Tax (7.375%)	\$4,800.17
		Total	\$76,787.17



Deployment of tarpomastic tarp



Landfill active area with tarp deployed and waste underneath tarp



Cover soil hauled by ADT haul truck. Average load 30 yards.