

**SUBMITTAL TO THE FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



**ITEM**  
11.4  
(ID # 5899)

**MEETING DATE:**

Tuesday, December 12, 2017

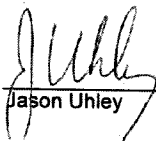
**FROM :** FLOOD CONTROL DISTRICT:

**SUBJECT:** FLOOD CONTROL DISTRICT: Accept Responsive Bid for the Purchase of One (1) mdSolutions Microdrone mdMapper 1000DG Vertical Lift Unmanned Aerial Vehicle (UAV/Drone) from Allen Instruments & Supplies LLC [All Districts] [\$90,575] [District Funds 100%] (4/5 Vote Required)

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Approve the Purchase of the Microdrone UAV from Allen Instruments & Supplies LLC; and
2. Authorize and direct the Auditor-Controller to make budget adjustment per attached Schedule A.

**ACTION:** (4/5 Vote Required) 4/5 Vote Required

  
Jason Uhley


11/28/2017

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**MINUTES OF THE BOARD OF SUPERVISORS**

On motion of Supervisor Ashley, seconded by Supervisor Jeffries and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Tavaglione, Perez and Ashley  
Nays: None  
Absent: Washington  
Date: December 12, 2017  
xc: Flood, Auditor

Kecia Harper-Ihem  
Clerk of the Board  
By:   
Deputy

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD  
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<b>FINANCIAL DATA</b>	<b>Current Fiscal Year:</b>	<b>Next Fiscal Year:</b>	<b>Total Cost:</b>	<b>Ongoing Cost</b>
<b>COST</b>	\$90,575	\$0	\$90,575	\$0
<b>NET COUNTY COST</b>	\$0	\$0	\$0	\$0
<b>SOURCE OF FUNDS:</b> District Funds 100%			<b>Budget Adjustment:</b> Yes	
			<b>For Fiscal Year:</b> 17/18	

**C.E.O. RECOMMENDATION:** Approve

**BACKGROUND:**

**Summary**

The District has FAA certified UAV pilots that have been utilizing the District's consumer grade drone to evaluate the viability of operating drones more extensively for mapping and other purposes. As a result, the District proposes to purchase the mdSolutions Microdrone mdMapper 1000DG UAV to reduce mapping costs while simultaneously improving the speed and detail of mapping projects. The District typically expends up to \$200,000 per year on over 100 mapping projects to meet state dam certification requirements, evaluate debris levels behind debris basins, and facilitate other maintenance and design needs. The UAV utilizes Geo-referencing measurement technologies to achieve engineering grade mapping with minimal survey ground control. The District projects that utilizing this technology will result in roughly \$70,000 in savings in year one, and \$100,000 in savings in subsequent years.

**Impact on Residents and Businesses**

Costs incurred will be funded by ad valorem property tax revenue and entails no new fees, taxes or bonded indebtedness.

**Contract History and Price Reasonableness**

In accordance with purchasing guidelines, on October 31, 2017, the District released a Request for Quote FCARC-00143 for the purchase of an Unmanned Aerial Vehicle (UAV) Vertical Lift with Direct Geo-referencing, GNSS, Inertial Mapping, Photogrammetry. One vendor was responsive and submitted a quote and three (3) vendors declined to participate. The responsive bidder, Allen Instruments & Supplies LLC., met all product and training specifications with a cost of \$90,575.19. The District expects that the drone acquisition will pay for itself within two years of operation.

**Budget Adjustment**

Increase Appropriations:

40650-947120-546240	Equipment – Survey & Mapping	\$90,575.00
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Decrease Unrestricted Net Assets:

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40650-947120-380100

Unrestricted Net Assets

\$90,575.00

**ATTACHMENTS:**

**SCHEDULE A. BUDGET ADJUSTMENT**

*Scott Bruckner*  
Scott Bruckner

12/4/2017

*Misley Wang*  
Misley Wang

11/28/2017

**Schedule A**

Increase appropriations:

40650-947120-546240	Equipment – Survey & Mapping	\$90,575.00
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Decrease Unrestricted Net Assets:

40650-947120-380100	Unrestricted Net Assets	\$90,575.00
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