



AGENDA MEMORANDUM

Action Item for the City Council Meeting August 13, 2024

DATE: August 13, 2024

TO: Peter Zaroni, City Manager

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<p>Purchase of Hardware, Accessories and Licenses for Dual-Facing Dash Cameras and Vehicle Gateway Systems for Corpus Christi Water</p>
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CAPTION:

Motion authorizing execution of a 36-month agreement with Samsara Inc., of San Francisco, California, through the Sourcewell Cooperative, for the purchase of licenses, hardware, and accessories for dual-facing dash camera safety system for Corpus Christi Water vehicles in the amount of \$591,067.00, with FY 2024 funding of \$196,524.00 from the Wastewater and Water Funds.

SUMMARY:

This motion authorizes a 36-month service agreement for the purchase of licenses, hardware, and accessories for dual-facing dash camera safety and asset tracking system for the vehicles operated by Corpus Christi Water (CCW). This system will provide real-time visibility into the safety and operational practices of the drivers and equipment. This data will assist in documenting unsafe driving behavior and will help CCW staff correct and potentially stop preventable vehicle accidents.

BACKGROUND AND FINDINGS:

CCW has approximately 600 motor vehicular assets in the fleet, including both light equipment and heavy equipment. The type of equipment ranges from service trucks to vactor trucks and tractors. Of the approximately 600 assets, 318 are commonly utilized for roadway transportation. These 318 units will be equipped with video-based safety systems to monitor driver patterns and potential safety risks. The program provides both safety and operational benefits that would include a reduction in vehicle incidents, increase in productivity, decrease in vehicle maintenance costs, and improved proactive vehicle

maintenance.

The video-based safety system and equipment monitoring will provide real-time visibility into the operation of CCW's vehicular fleet. The system will detect driver risk, empower drivers to build safe habits, coach drivers with custom training, and limit risk and exposure. In addition to the video-based safety system, the platform includes vehicle telematics, equipment operation, and maintenance monitoring. Vehicle telematics will optimize fleet operations, assist with maintenance scheduling, and the use of vehicular assets.

Supervisors are notified by the Samsara system when specific events are observed. This system allows supervisors to address the behavior in a timely manner. The data collected indicated that observable risk factors were reduced more quickly when vehicle operators receive prompt coaching from their supervisors. Additionally, this video-based system will identify concerning driving practices, decrease preventable/at-fault accidents, protect and exonerate the driver and department when not at fault, and allow supervise to provide more individualized training for employees.

A pilot program was conducted at CCW from January 2024 to April 2024 in which 12 vehicles were equipped with the video-based safety system. The units in the pilot were identified and selected to provide a full representation of vehicle types and uses within CCW. The users of this equipment in the pilot test included first responders, water quality teams, and meter maintenance teams. All operators were informed of the equipment installed in their assigned department vehicle.

During the pilot program a total of 27,803 miles were driven with a total time of 1,237 hours logged. Harsh driving events such as sudden turning, braking, and accelerating rates decreased by 68% during the pilot. Additionally, collision risks primarily characterized by following distance decreased by 91%. Distracted driving also decreased by a percentage of 32%.

Many Texas Municipalities also utilize the Samsara system to improve their operations. Some of the entities and their number of units installed are listed in the table below.

Entity	Number of Units
City of Corpus Christi – Solid Waste Department	120
Port of Corpus Christi	140
San Antonio – Solid Waste Department	550
City of Austin – Resource Recovery	250
City of Grand Prairie	1,200
City of Arlington	500
City of Garland	140
City of Lewisville	250
City of Frisco	400
City of Abilene	550
City of El Paso	800
El Paso Water	250

CCW has reached out to a number of these entities (City of El Paso, El Paso Water, the Port of Corpus Christi, City of Corpus Christi – Solid Waste Department, etc.) and they are all pleased with the results and the addition of this system to their operations.

CCW currently utilizes GPS (global positioning system) equipment in 297 vehicles. This system allows supervisors to track and monitor vehicle location only. It does not have the capability to provide information and resources to correct poor driver habits or assist with maintenance monitoring/tracking.

PROCUREMENT DETAIL:

This procurement is through the Sourcewell Cooperative. Contracts awarded through the cooperative have been competitively procured in compliance with Texas Local and State procurement requirements.

Finance & Procurement researched other cooperative contracts and service offerings to find the most cost-effective option for the City. Competitive cost comparisons with other distributors for the same units show Sourcewell gives the City a savings of 6.4% for the purchase of these items for the dashcam systems.

Item	Sourcewell -Samsara Inc.	Omnia-Carahsoft
Licenses for Dual Facing Cameras and Vehicle Gateways for 36 months	\$591,067.00	\$628,702.30

ALTERNATIVES:

An alternative to establishing this service agreement would be not to enter into an agreement.

FISCAL IMPACT:

The fiscal impact for Corpus Christi Water for FY 24 is \$196,524.00 from the Wastewater and Water Funds.

Funding Detail:

Fund:	4200	Wastewater
Organization/Activity:	33100	Broadway Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$2,848.00	

Fund:	4200	Wastewater
Organization/Activity:	33110	Oso Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$3,987.00	

Fund:	4200	Wastewater
Organization/Activity:	33120	Greenwood Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$1,709.00	
Fund:	4200	Wastewater
Organization/Activity:	33130	Allison Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$2,848.00	
Fund:	4200	Wastewater
Organization/Activity:	33140	Laguna Madre Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$2,848.00	
Fund:	4200	Wastewater
Organization/Activity:	33150	Whitecap Wastewater Plant
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$3,987.00	
Fund:	4200	Wastewater
Organization/Activity:	33170	WWTP Vactor Maintenance
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$2,279.00	
Fund:	4200	Wastewater
Organization/Activity:	33210	Lift Station Operation & Maint
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$17,089.00	
Fund:	4200	Wastewater
Organization/Activity:	33300	Wastewater Pretreatment
Department:	46	Wastewater
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$6,266.00	
Fund:	4200	Wastewater

Organization/Activity:	33400	Wastewater Collections System
Department:	46	Wastewater
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$28,482.00	
Fund:	4200	Wastewater
Organization/Activity:	33600	WW Collections Ops & Maintenance
Department:	46	Wastewater
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$19,937.00	
Fund:	4010	Water
Organization/Activity:	30000	Water administration
Department:	45	Water
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$1,139.00	
Fund:	4010	Water
Organization/Activity:	30001	Utility Planning Group
Department:	45	Water
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$1,139.00	
Fund:	4010	Water
Organization/Activity:	30005	Utility Administration
Department:	45	Water
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$570.00	
Fund:	4010	Water
Organization/Activity:	30200	Wesley Seale Dam
Department:	45	Water
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$4,557.00	
Fund:	4010	Water
Organization/Activity:	30210	Choke Canyon Dam
Department:	45	Water
Project # (CIP Only) :	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$3,418.00	
Fund:	4010	Water
Organization/Activity:	30250	Lake Texana Pipeline

Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$2,848.00	
Fund:	4010	Water
Organization/Activity:	31010	Stevens Filter Plant
Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$18,228.00	
Fund:	4010	Water
Organization/Activity:	31501	Water Quality
Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$7,975.00	
Fund:	4010	Water
Organization/Activity:	31510	Maintenance of water meters
Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$23,925.00	
Fund:	4010	Water
Organization/Activity:	31515	Backflow prevention
Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$1,139.00	
Fund:	4010	Water
Organization/Activity:	31520	Treated Water Delivery System
Department:	45	Water
Project # (CIP Only):	N/A	
Account:	520090	Minor tools & equipment
Amount:	\$39,305.00	

RECOMMENDATION:

Staff recommend approval of this motion with Samsara Inc., as presented.

LIST OF SUPPORTING DOCUMENTS:

Price Sheet