

# CA - PMM

Project Name: Telemetry Optimization

OCIO Project #: \_\_\_\_\_

Department: Water Resources

Revision Date: \_\_\_\_\_

## Concept Statement

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### Description

**Brief description of the proposed project:**

The Department uses telemetry as a vital part of water data management. This project will assess the overall telemetry needs, develop a telemetry strategy that optimizes the telemetry sensor use, transmission and provides for appropriate back up, security and disaster recovery to protect these critical assets.

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### Need Statement

**High Level Capabilities Needed:**

24x7 automatic data transmission  
14 day data backup  
Automatic transmission failure notification  
Remote programming, retransmission, error correction

**What is Driving This Need?**

Multiple organizations within the Department utilize telemetry to monitor water quality, chemical composition, temperature, flow, etc. Routinely, a single physical location will have multiple sensors, usually identical, collecting data that a single sensor could collect. The different data sets utilize similar, yet redundant, equipment to transmit the data to its final repository. In addition, the final repository for the various organizations is the same.

**Risk to the Organization if This Work is Not Done:**

While there is not a near term operational risk with the redundancy that is currently in place, the long term risk is the impact to operational needs as the business decisions are made to not upgrade, back up or maintain equipment because of the scarcity of dollars which results in the inability to obtain program critical data.

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### Benefit Statement

#### Intangible Benefits

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**Process Improvements** (describe the nature of the process improvement):

Economies of scale  
Reduction in duplicative data capture, back-up, troubleshooting, repair, etc.

**Other Intangible Benefits:**

Asset protection

### Tangible Benefits

**Revenue Generation** (describe how revenue will be generated):

N/A

**Cost Savings** (describe how cost will be reduced):

Costs will be reduced through the elimination of duplicate equipment, and streamlining maintenance.

**Cost Avoidance** (describe the cost and how avoided):

**Risk Avoidance** (describe the risk and how avoided):

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### Improved Services:

The end users of the data, both internal DWR program staff and external constituents, like the State Water Contractors, will receive consistent, timely, and accurate data without interruption.

### Consistency

"No" Responses 		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

### Impact to Other Agencies

#### Nature of Impact to Other Agencies

**Agency:**  
*Describe the nature of the impact:*  
N/A

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**Agency:**

*Describe the nature of the impact:*

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### Solution Alternatives

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**Alternative 1:**

No specific alternatives have been explored at this time. Solution Alternatives will be developed fully as an integral component of the business justification that will determine the best value solution to meet the business drivers and objectives. NOTE: The Rough Order of Magnitude is estimated at \$0.5 million for the project.

**Technical Considerations for Alternative 1:**

ROM Cost:

to

Note: high end of range must not exceed 200% of low end of range

**Alternative 2:**

**Technical Considerations for Alternative 2:**



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**Recommendation:**

Proceed with the development of an enterprise-wide telemetry approach.

### Concept Approach *(if known)*

<b>System Complexity:</b>		System Business Hours: <i>(e.g., 24x7, 9am-5pm)</i> :		
Architecture	<input type="checkbox"/> Mainframe	<input type="checkbox"/> Client Server	<input type="checkbox"/> Web Based	Num. of New Databases:
Technology	<input type="checkbox"/> New	<input type="checkbox"/> New to Staff	<input type="checkbox"/> In-House Experience	Interfaces:
Implementation	<input type="checkbox"/> Central Site	<input type="checkbox"/> Phased Roll-out		Num. of Sites:
M & O Support	<input type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input type="checkbox"/> Project	<input type="checkbox"/> Returned to Sponsor
Procurement Approach: <i>(consult with OSI Procurement Center)</i>				Number of Procurements:
Open Procurement?		Delegated Procurement?		
Scope of Contract	<input type="checkbox"/> Development	<input type="checkbox"/> Implementation	<input type="checkbox"/> M & O	<input type="checkbox"/> Other:
Anticipated Length of Contract:		Years /	extensions for	years