



Engineering, Operations, & Technology Committee

Red Mountain Pressure Control Structure Sleeve Valve Procurement

Item 7-1

October 7, 2024

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Red Mountain PCS Sleeve Valve Procurement

Subject

Award a \$589,957 procurement contract to Vogt Valves for one sleeve valve to be installed at the Red Mountain Pressure Control Structure (PCS) in the Skinner service area

Purpose

Improves operational reliability

Recommendation and Fiscal Impact

Award a procurement contract for a large-diameter valve

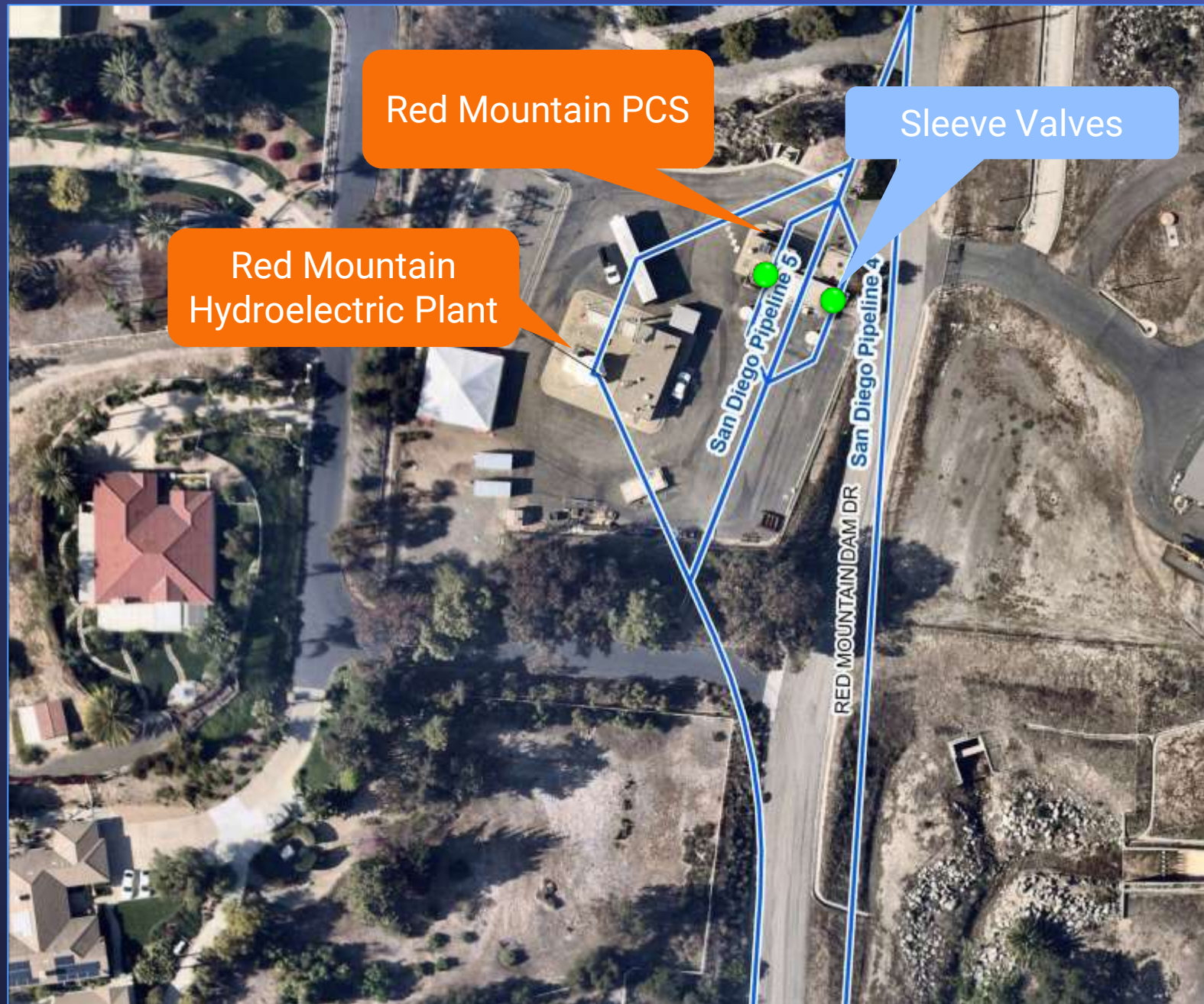
Fiscal Impact – \$800,000

Budgeted

Location Map



Vicinity Map



Red Mountain PCS Sleeve Valve Procurement



Sleeve valve assembly
w/ actuator

Background

- Red Mountain PCS
 - Includes two 66-inch diameter pipes with 42-inch diameter sleeve valves
 - Valves used to regulate pressure & flows in San Diego Pipeline No. 5 (SDPL5)
 - SDPL 5 supplies up to 500 cfs of untreated water to San Diego County Water Authority

Inspection

- Two sleeve valves with extensive wear & tear
 - First rehabilitated in 2022
 - Second structurally compromised
- Currently only one valve installed
 - No isolation valves
 - Bulkhead installed in place of damaged valve
 - Limits operation to about half capacity



Crack on the valve body



Liquid penetrant testing on valve body

Red Mountain PCS Sleeve Valve Procurement

Scope of Work

- Vendor
 - Fabricate & deliver 42-inch diameter sleeve valve & actuator, associated fittings & accessories
- Metropolitan
 - Factory fabrication inspection & functional testing
 - Submittals review
 - Off-load & store valve
 - Contract administration & project management

Red Mountain
PCS Sleeve
Valve
Procurement

Alternatives Considered

- Valve Refurbishment
 - Extensive damage to valve body
 - Repair not cost-effective
 - Life span less than 5 years
- Selected Alternative – New sleeve valve
 - Ensures a longer useful life
 - Improves reliability

Bid Results

Specifications No. 2098

Bids Received	July 11, 2024
No. of Bidders	3
Lowest Responsible Bidder	Vogt Valves
Low Bid*	\$589,957
Range of Other Bids*	\$727,792 to \$3,344,948

*No SBE (Small Business Enterprise) participation level set for procurement contract

Note: Includes sales & use taxes of 7.75 percent imposed by the state of California

Allocation of Funds

Red Mountain PCS Rehabilitation

Metropolitan Labor

Owner Costs (Proj. Mgmt., Contract Admin.)	\$ 67,000
Submittals Review, Tech. Support, Record Dwgs.	45,000
Fabrication Inspection & Support	69,300

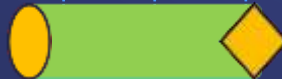



Contract

Vogt Valves	589,957
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Remaining Budget	28,743
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Total	\$ 800,000
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Project Schedule

Project	2024	2025
Red Mountain PCS Sleeve Valve Procurement		
 Procurement	 Board Action	
	 Completion	

Note: Valve to be installed during future shutdown

Board Options

- Option #1
Award a \$589,957 procurement contract to Vogt Valves to furnish one 42-inch diameter stainless steel sleeve valve for the Red Mountain Pressure Control Structure.
- Option #2
Do not proceed with the project at this time.

Staff Recommendation

- Option #1

