

BEFORE THE
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

UW-240151

CASCADIA WATER, LLC

January 13, 2025

Direct Exhibit of Matthew J. Rowell and Culley J. Lehman

CASCADIA WATER LLC'S RESPONSE TO WCAW DR 104

Exh. MJR-CJL-2



Rates & Regulatory Affairs

UW-240151

Cascadia Water LLC Proposed General Rate Case

Data Request Response

Date of Response: October 22, 2024
Responder/Witness: Culley Lehman
Telephone: 360.661.7781
Email: culley@cascadiawater.com

Request No.: UW-240151 WCAW DR 104

Introduction to WCAC DR 104: Culley Lehman testified that "The Company installed SCADA (Supervisory Control and Data Acquisition) at each water system source to monitor real-time tank levels, pressure settings, pump controls (events, hours, etc.). This project was included in our Island County Unified Master Plan - see Exhibit CJL-8)." ."

WCAC DR 104: For each system where Cascadia has installed a SCADA system please state

1. The name of the water system
2. The cost of purchase and installation of the SCADA system
3. Whether and how a SCADA system benefits customers?
4. Whether and how a SCADA system benefits Cascadia?
5. Whether you contend that a SCADA system is required by DOH or any other entity
6. If so, please produce the regulation or other industry standard upon which you rely
7. All maintenance or other costs, such as security, hardware or software updates, do the Cascadia SCADA systems entail?
8. If you retain a security company to monitor the SCADA system, please state the name of the company and the annual cost of their services
9. Produce all documents regarding your analysis, including the costs and benefits, of each SCADA system that you considered.
10. Produce all documents regarding your analysis, including the costs and benefits, of each alternative to deploying any SCADA system.

Response:

Cascadia Water is providing responses for SCADA that were installed since the last rate case in the attached excel file UW-240151 WCAW DR 104 Attachment 1.

SCADA was installed (and cost recovery was authorized by the Commission) in the prior rate case for the following systems, both on the Island and the Peninsula: Beachcombers, Estates, Monterra, Sea View, TEL 1, TEL 3, TEL 4, TEL 5, TEL 10, TEL 11, & WB Waterworks.

1) The name of the water system	2) The cost of purchase and installation of the SCADA system	3) Whether and how a SCADA system benefits customers?
Diamond Point*	11k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Agate West	7k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Island Lake*	11k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Lynch Cove	15k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.

Discovery Bay*	17k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Tjetland	4k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Silver Lake*	11k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Lake Alyson*	11k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.
Cedarhearth	5k	Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.

Blanchard Knob	14k	<p>Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.</p>
Rolf Bruun	1k	<p>Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.</p>
Jamestown on Wilcox Ln	4k	<p>Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.</p>
Dungeness Bay Plats	7k	<p>Yes. As stated in our testimony, the system actively pre-warns (with alarms to operators) events such as low pressure and/or low storage level, so the operator can act before customers notice any effect.</p>

**These systems have more than one SCADA installed (due to multiple well/reser*

Further benefits of SCADA:

1. Proactive Maintenance: SCADA helps identify issues early, leading to better €
2. Quick Response to Issues: Real-time data allows operators to react promptly
3. Automated Controls: SCADA automates processes, reducing labor costs.
4. Customized Alerts: Alerts can be customized for specific events or condition
5. Detailed Reporting: SCADA generates reports for compliance and decision-m

6. Integration With Current Equipment: SCADA can work with existing systems.
7. Network Security: Ensures secure communication and data protection.

4) Whether and how a SCADA system benefits
 Cascadia?

5) Whether you contend that
 a SCADA system is required
 by DOH or any other entity

6) If so, please produce
 the regulation or other
 industry standard upon
 which you rely

Yes. As stated in our testimony, this allows the
 Company to gain more knowledge of each water
 system without having to rely on onsite resources to
 visually inspect each of these components
 constantly. Further benefits are also listed below.

No

n/a

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 Company to gain more knowledge of each water
 system without having to rely on onsite resources to
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No

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No

n/a

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equipment maintenance.
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| <p>7) All maintenance or other costs, such as security, hardware or software updates, do the Cascadia SCADA systems entail?</p> | <p>8) If you retain a security company to monitor the SCADA system, please state the name of the company and the annual cost of their services</p> | <p>9) Produce all documents regarding your analysis, including the costs and benefits, of each SCADA system that you considered.</p> |
|---|--|--|

<p>1126.80/year</p>	<p>n/a</p>	<p>The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.</p>
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<p>563.40/year</p>	<p>n/a</p>	<p>The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.</p>
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563.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.
1126.80/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.
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347.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.

347.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.
563.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.
347.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.
563.40/year	n/a	The same SCADA system was installed on all water systems to ensure redundancy, resiliency and networking.

10) Produce all documents regarding your analysis, including the costs and benefits, of each alternative to deploying any SCADA system.

It is industry standard to have SCADA installed at each water system, therefore we did not analyze other alternatives.

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