



Memorandum

Date: 2/13/2024
Meeting of: City Council Study Session

File No. SS 24-002
Type: Study Session

TO: Members of the City Council
FROM: Mayor Angela Birney
DEPARTMENT DIRECTOR CONTACT(S):

Public Works	Aaron Bert	425-556-2786
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DEPARTMENT STAFF:

Public Works	Amanda Balzer	Policy and Planning Manager
Public Works	Ernie Fix	Operations Manager
Public Works	Aaron Moldver	Environmental Programs Manager
Public Works	Chris Stenger	Deputy Director

TITLE:

Groundwater Production and Water Quality Update

OVERVIEW STATEMENT:

Redmond operates a hybrid water system, where approximately 60% of drinking water is purchased from Cascade Water Alliance. The other 40% is produced from the City's five municipal supply wells. As a member of Cascade Water Alliance Redmond is contractually obligated to support demands by operating these wells.

Public Works strives to provide safe and reliable drinking water today and for future generations. Redmond's municipal supply wells are deemed moderate and highly vulnerable to surface contamination and requires diligence to protect this valuable resource. This is achieved through a robust Wellhead Protection Program, compliance with drinking water regulations, and maintenance of our distribution system.

The informational presentation will cover the following:

- Hybrid Water System
- Aquifer 101
- Water Quality Protection
- Well Production

☐ **Additional Background Information/Description of Proposal Attached**

REQUESTED ACTION:

☒ **Receive Information** ☐ **Provide Direction** ☐ **Approve**

REQUEST RATIONALE:

- **Relevant Plans/Policies:**
Water System Plan, Utilities Strategic Plan
- **Required:**
N/A
- **Council Request:**
N/A
- **Other Key Facts:**
 - Demand - On average 7 million gallons per day (MGD) is supplied to Redmond residences and business annually. Monitoring wells to act as an early warning system to our municipal supply wells.
 - Wellhead Protection - staff review development plans and business license applications for new development and businesses within the city's Critical Aquifer Recharge Area to ensure compliance with wellhead protection regulations in the Redmond Zoning Code and Redmond Municipal Code. Staff also monitor and sample a network of ~100 groundwater monitoring wells to act as an early warning system to our municipal supply wells.
 - Water Quality - In 2023 1,321 regulatory drinking water samples were collected and resulted in full compliance with Washington State Department of Health regulations.
 - Distribution system - Redmond's water utility supplies water to more than 19,500 businesses, houses, and multifamily units. Staff operate and maintain over 300 miles of water main pipe and 12,650 water main valves.

OUTCOMES:

Receive information on groundwater protection, municipal supply well production, and water quality.

COMMUNITY/STAKEHOLDER OUTREACH AND INVOLVEMENT:

- **Timeline (previous or planned):**
N/A
- **Outreach Methods and Results:**
N/A
- **Feedback Summary:**
N/A

BUDGET IMPACT:

Total Cost:
N/A

Approved in current biennial budget: ☐ Yes ☐ No ☒ N/A

Budget Offer Number:
0000002 and 0000003

Budget Priority:

Healthy and Sustainable

Other budget impacts or additional costs: ☐ Yes ☐ No ☒ N/A

If yes, explain:

N/A

Funding source(s):

Utility rates

Budget/Funding Constraints:

N/A

☐ Additional budget details attached

COUNCIL REVIEW:

Previous Contact(s)

Date	Meeting	Requested Action
N/A	Item has not been presented to Council	N/A

Proposed Upcoming Contact(s)

Date	Meeting	Requested Action
N/A	None proposed at this time	N/A

Time Constraints:

N/A

ANTICIPATED RESULT IF NOT APPROVED:

N/A

ATTACHMENTS:

Attachment A: Groundwater and Production Presentation