



UTILITIES COMMITTEE
MONDAY, MAY 2, 2022
12:00 P.M.
REMOTE AND IN PERSON ATTENDANCE

The Utilities Committee meeting will be conducted both remote and in person.

The public may attend the meeting in person in the Council Chambers at Lacey City Hall, 420 College Street SE, Lacey, Washington, or you may view or listen to the meeting by using one of the following platforms:

Live through Zoom: <https://us02web.zoom.us/j/89847969123>

Live or as a recording on YouTube: <https://youtu.be/On79ENaLRiM>

Listen via telephone: **(888) 788-0099** or **(877) 853-5247** (Webinar ID: **898 4796 9123**)

WATER MAIN MAINTENANCE & REPAIR

ZACK ROUGH, SENIOR WATER MAINTENANCE TECH

ED ANDREWS, WATER MAINTENANCE SUPERVISOR

(PRESENTATION)

WATER SHORTAGE RESPONSE PLAN

LINSEY FIELDS, WATER RESOURCES SPECIALIST

(STAFF REPORT)



UTILITIES COMMITTEE May 2, 2022

SUBJECT: Water Shortage Response Plan

RECOMMENDATION: This is a briefing presentation. No action is required

STAFF CONTACT: Scott Spence, City Manager *SS*
Scott Egger, Public Works Director *SE*
Peter Brooks, Water Resources Manager *PB*
Linsey Fields, Was Resources Specialist

ORIGINATED BY: Water Resources, Department

ATTACHMENTS: 1. Water Shortage Response Plan

FISCAL NOTE: N/A

PRIOR REVIEW: N/A

BACKGROUND:

This Water Shortage Response Plan (WSRP) provides operating procedures to be implemented by the City of Lacey Water Utility in the event of a weather-related water shortage, natural or human-caused disaster, or other water system operating emergency.

The objective of the WSRP is to establish procedures for managing water supply and demand in times of shortage. The WSRP identifies the range of demand reduction actions that are available and defines the mechanism(s) by which decisions will be made during a shortage event. Since each situation has unique characteristics, the WSRP cannot address all possible scenarios, or all management actions that are appropriate to a given situation. For this reason, the WSRP is intended as a framework of actions that will be tailored to meet the specific needs of a shortage situation. It is the goal of the WSRP to maintain essential public health and safety services, minimize adverse impacts on the local economy, the environment, and City's water customers.

The present possible production (P3) is the maximum amount of water that can be produced with wells pumping 21 hours per day expressed in millions of gallons per day. Daily production is based on 21 hours instead of 24 to reflect wells shutting off as

reservoirs fill overnight. For the annual period beginning June 1, 2022, the present possible production (P3) is 18.86 Million Gallons per Day. Therefore, the WSRP stage triggers are as follows:

- Stage 1: Advisory: Every Summer.
- Stage 2: Internal Action Stage: 15.09 MGD (80% of P3 for 3 consecutive days).
- Stage 3: Mandatory Stage: 16.98 MGD (90% of P3 for 3 consecutive days).
17.92 MGD (95% of p3 for 1 day).
- Stage 4: Emergency Stage: 17.92 MGD (95% of P3 for 3 consecutive days).
18.86 MGD (100% of P3 for 1 day).

***New update to 2022 WSRP includes consolidation of Step 1 & 2 of Stage 2 into one stage/trigger, new language for actions taken by WSR team, and document upgrades.

ADVANTAGES:

1. The WSRP manages public water supply and demand in times of shortage while maintaining essential public health and safety services and minimizing adverse impacts on the local economy, the environment, and the lifestyle of the City's water customers.

DISADVANTAGES:

1. If a water shortage becomes severe enough to trigger mandatory actions, water customers may be unhappy with the reduction in allowable water use.