North Sewer Service Area
Moratorium Queue
(continued)
August 2, 2021
## Interim Phasing and Estimated ERU Capacity
### Immediate and I-4 Interim Improvements

<table>
<thead>
<tr>
<th>Oct 2021</th>
<th>Feb 2023</th>
<th>June 2023</th>
<th>2024-2025</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immediate Improvements:</strong></td>
<td><strong>I-4 Phase 1:</strong></td>
<td><strong>I-4 Phase 2:</strong></td>
<td><strong>I-4 Phase 3:</strong></td>
<td><strong>Sammamish Plateau Diversion:</strong></td>
</tr>
<tr>
<td>North Lake Lift Station Bypass Pump</td>
<td>Central Lake Force Main &amp; North Lake Lift Station</td>
<td>Central Lake Gravity Main Limit of 1,750 gpm</td>
<td>North Lake &amp; Central Lake Lift Stations 2,000 gpm</td>
<td>Avoid surcharging Gravity at 2,000 gpm</td>
</tr>
<tr>
<td>250 gpm = 694 ERUs</td>
<td>250 gpm = 694 ERUs</td>
<td>250 gpm = 694 ERUs</td>
<td>0 gpm = 0 ERUs</td>
<td>7,000+ ERUs</td>
</tr>
</tbody>
</table>

8/2/2021

Added ERU Capacity is calculated on the basis of 0.36 gpm/ERU
### ERUs in the Certificate/DEA Pipeline

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Pipeline</td>
<td>22.0</td>
<td>17.0</td>
<td>82.0</td>
<td>22.0</td>
<td>245.0</td>
<td>388.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-Family</td>
<td>22.0</td>
<td>17.0</td>
<td>82.0</td>
<td>22.0</td>
<td>181.0</td>
<td>324.0</td>
</tr>
<tr>
<td>Multi-Family</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>32.0</td>
<td>32.0</td>
</tr>
<tr>
<td>Non-Residential</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>32.0</td>
<td>32.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>22.0</td>
<td>17.0</td>
<td>82.0</td>
<td>22.0</td>
<td>245.0</td>
<td>388.0</td>
</tr>
</tbody>
</table>

* 164 of the 245 ERUs in the Planning Phase are in the Town Center

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**Town Center**
- 196.0 Existing Sewer ERUs
- 360.0 Estimated ERUs in 2025
- 1,828.5 ERUs at Zoning Capacity
# Septic Conversion ERUs

<table>
<thead>
<tr>
<th>NSSA Septic Conversion Estimates</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2024-2025 Total</th>
<th>2026-2030</th>
<th>Total Septic ERUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recent Conversion Rates</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
<td>40.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Existing Houses on Septic with Sewer Available</td>
<td>33.5</td>
<td>33.5</td>
<td>33.5</td>
<td>66.5</td>
<td>167.0</td>
<td>167.0</td>
</tr>
</tbody>
</table>

*Use assumption that houses on septic with sewer available will connect within 10-years
  • This is a conservative assumption. Do not anticipate all of these will connect within 10 years.
  • Sewer main extensions from DEAs will increase the number of existing houses with sewer available
  • Not all houses requesting connection will have failing septic systems
  • Other septic conversions may require a main extension, and not have sewer currently available*
ERUS AVAILABLE FOR QUEUE - 2021-2030
ERUs Available for Queue Depend on ERUs Set Aside for Pipeline & Septic Conversion

ERUs Available for Queue
- Reserve All Pipeline ERUs
- Set Aside ERUs for Septic Conversion
  - Initial 50% of Customers with Sewer Available with Initial Improvements
  - Remaining 50% of those with Sewer Available with Interim Improvements

Immediate Improvements
Complete in 2021
Last until 2023 for Interim Improvements

I-4 Phase 1 & 2 Improvements
Complete in 2023
Last until 2030+ for Permanent Solution

8/2/2021
Interim Phasing and Estimated ERU Capacity

Immediate, temporary improvements

I-4 Phase 1. Interim improvements

I-4 Phase 2. Interim improvements

I-4 Phase 3. Interim improvements

Sammamish Plateau Diversion Phase 1

ERUs Available are different than those presented in the July 26th meeting due to changed Septic Conversion set-aside assumptions

8/2/2021
NSSA – THE QUEUE FOR ADDED CAPACITY

Implementing Queue
• Have a set-aside for septic conversions
• Establish an unlimited queue
• Allow property owners to get in line for future anticipated sewer capacity
• Requests will include a specific number of Equivalent Residential Units (ERUs)
• To limit speculation there could be an cost to get into the Queue
• Consider having a separate queues for
  • Single Family Connections
  • Developments

Managing Queue Use
• Use of the queue is implemented upon the availability of additional capacity
• Equivalent Residential Units (ERUS) to be made available are from:
  • Modeled capacity of completed improvements based on 2019 data
  • Modified by any changes to the domestic gpm/ERU use rate
  • Modified by any changes in Infiltration/Inflow rates due to abatement activities
• The queue is maintained for future added capacity
USE OF QUEUE – CAPACITY AVAILABLE → REQUEST → USE

- Immediate Improvements
- Phase 1 Improvements
- Phase 2 Improvements
- Permanent Solution

Request Queue → Release Capacity to Queue

ERUs available for next in Queue

Notice of Available Capacity

Confirm Capacity Request

Put Capacity To Use

Yes

NO

Existing House on Septic
New Single Family House
New Development

Suggest 60 days

Time limit to use

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USE OF QUEUE – CAPACITY AVAILABLE – USE SEWER CAPACITY
Existing House on Septic

If not used within designated time will forfeit Capacity Use

If Septic Conversion is under a specific ERU set-aside, these are not subject to the Queue
USE OF QUEUE – CAPACITY AVAILABLE – USE SEWER CAPACITY
New Single-Family House

Accept Capacity Use → New Single Family House ̲ Certificate Fee ̲ Certificate Issued ̲ Permit Application to Land Use Agency ̲ Permit Approved Ready for Connection ̲ Side Sewer Application GFC, Connection Charges Paid ̲ Connect Sewer Service

60 Days ̲ 1 Year

If not used within designated times will forfeit Capacity Use
USE OF QUEUE – CAPACITY AVAILABLE – USE SEWER CAPACITY
New Development

Accept Capacity Use

Developer Extension Required

Application Fee

Partial GFC Charges Paid

Certificate Issued

Permit Application to Land Use Agency

Plans Approved

Final GFC Charges Paid

Construct Sewer

DEA Sewer Accepted

DEA Initiation Phase

DEA Design Phase

If not used within designated times will forfeit Capacity Use

Side Sewer Application

Side Sewer Fee Paid

Connect Sewer Service

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USE OF QUEUE – CAPACITY AVAILABLE – USE SEWER CAPACITY

USE OF AVAILABLE CAPACITY

1 - 2 Years

120 Days

3 - 5 Years

Accept Capacity Use

Existing House On Septic

Connect Sewer Service

New Single Family House

Connect Sewer Service

New Development

Connect Sewer Service

CAPACITY AVAILABLE

August 2021
Immediate Improvements October 2021
139 ERUs Available

Phase 1
February 2023
666 ERUs Available

Phase 2
June 2023
1,360 ERUs Available

Permanent Solution 2030+

End Queue
USE OF QUEUE – CAPACITY AVAILABLE – USE SEWER CAPACITY

Next Steps for the Queue

• Establish process to administer the queue
• Application Form approval
• Gather Queue Applications
  until the Moratorium is released based on available capacity
Questions?
& Discussion