North Sewer Service Area
Moratorium Queue

July 26, 2021
Background - Path to Interim Improvements

2013 Wastewater Comprehensive Plan → 2016 Interim Improvement Evaluation
• 2025-2028 Sammamish Plateau Diversion Available → Implementing Initial 2016 Evaluation Recommendations

Refined Scope Report & Implementing 2021 Analysis Recommendations ← 2021 Interim Improvement Analysis

Queuing for Capacity

Interim Improvements I-4 Phase 1 & 2 Construction
• 2022-2025

Permanent Solutions
• 2021 Analysis A-X: TBD OR
• Sammamish Plateau Diversion: 2030

Immediate, Temporary Improvements Update July 26, 2021

2018 – Sammamish Plateau Diversion Delayed Significantly
• 2050-2070 Sammamish Plateau Diversion Available
North Sewer Service Area – Moratorium

2/22/2021: 90-day moratorium declared.
4/19/2021: Modified for certain septic requests
5/24/2021: Moratorium Extended

New Certificates of Sewer Availability where Sewer Use Required
- Building a new house
- Remodeling an existing house
- New development

New Certificates of Sewer Availability
- If you have pre-paid connection charges
- Septic allowed

New Connections
- If your septic system is failing
- If you have pre-paid connection charges
- Developments in process, existing certificates

Not Allowed
- New Connections
  - Existing house on septic

Allowed
- New Connections
  - Existing house on septic

Certificates of Availability indicate a service commitment.
Interim Phasing and Estimated ERU Capacity
I-4 Interim Improvements

Added Capacity: 1,388 ERUs
Pipeline + Septic: - 555 ERUs committed
Phase 1 = 833 ERUs net available

**Central Lake**
- Lift Station, 2,100 gpm
  - Upgrade 8-in Central Lake Force Main
  - Adds 600 gpm capacity to Central Lake Lift Station

**North Lake**
- Lift Station, 1,750 gpm
  - Upgrade Lift Station Pumping Capacity
  - Adds 500 gpm capacity to North Lake Lift Station

**North Lake**
- Lift Station, 2,000 gpm
  - Bypass Central Lake Gravity
  - Adds 250 gpm capacity to North Lake Lift Station

**North Lake Gravity**
- 2,138 gpm
  - Upgrade 12-in, 15-in and 18-in Gravity Section
  - Estimated 721 gpm added pipeline capacity to alleviate suspected surcharging

Immediate Improvements could add up to 264 ERUs capacity. These are included in and not in addition to the Phase 1 833 ERUs

Added ERU Capacity is calculated on the basis of 0.36 gpm/ERU
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**

**2021**
- 264 ERUs

**2022**
- 833 ERUs Total

**2023**
- 1,527 ERUs Total

**2024**
- 2025
- 2026
- 2027
- 2028
- 2029
- 2030+

**Total**: 7,222 ERUs
NSSA – THE QUEUE FOR ADDED CAPACITY

Implementing Queue
• 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

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

- Request Queue
- Release Capacity to Queue
- Notice of Available Capacity
- Confirm Capacity Request
- Put Capacity To Use

GFC Charges Paid?

Previously Paid GFCs refunded?
ERUs available for next in Queue

- Yes
- No

0-264? ERUs Potentially Available from Immediate Improvements
569-833 ERUs Available from Phase 1 Improvements
Depends on whether any released with Immediate Improvements
694 ERUs Available from Phase 2 Improvements
More when Permanent Solution is Completed

To Be Determined
Suggest 60 days

Time limit to use?
GFC Charges Paid?
## Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/29/2021</td>
<td>Approve Design Contract</td>
</tr>
<tr>
<td>5/2021</td>
<td>Initiate Immediate Temporary Improvements Identification</td>
</tr>
<tr>
<td>7/19/2021</td>
<td>Immediate, Temporary Improvements Report</td>
</tr>
<tr>
<td>10/2021</td>
<td>Implement Temporary Improvements</td>
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</tbody>
</table>

### I-4 Construction Project Board Touches

<table>
<thead>
<tr>
<th>I-4 Construction Project Board Touches</th>
<th>Phase 1 Central Lake Force Main</th>
<th>Phase 1 North Lake Lift Station</th>
<th>Phase 2 North Lake Force Main</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiate Project</td>
<td>4/2021</td>
<td>4/2021</td>
<td>4/2021</td>
</tr>
<tr>
<td>30% Design</td>
<td>8/2021</td>
<td>8/2021</td>
<td>11/2021</td>
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<tr>
<td>90% Design</td>
<td>1/2022</td>
<td>1/2022</td>
<td>6/2022</td>
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<tr>
<td>Complete Construction</td>
<td>9/2022</td>
<td>2/2023</td>
<td>6/2023</td>
</tr>
</tbody>
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Questions? & Discussion