

North City



WATER DISTRICT

1514 NE 174th St. • P.O. Box 58767 • Shoreline, WA 98158 • Phone: 206.362.8100 • Fax: 206.361.0077

Commissioners:

Ken Ricks

Charlotte Haines

Patricia Hale

District Manager:

Diane Pottenger, P.E.

November 20, 2020

Mark J Garey
14827 88TH AVE NE
Kenmore, WA 98028

Re: Fire Flow Analysis Task Order No. 1740
36XX NE 205TH ST (parcel 4022900497)
Lake Forest Park, WA 98155

Dear Mr. Mark J Garey,

Attached is the Fire Flow Analysis requested for your project. Below are the requirements based on the District's design criteria.

Fire Flow Available per Attached	1400 gpm
Water System Improvements Required to Complete Project	NO
Water System Extension Required	NO
Analysis Expiration Date	11-20-2021
Please contact North City Water District for Water System Improvement details.	

Note: North City Water District requires the property owner to upgrade the existing water service to meet the current District Standards. Fire Service may be required.

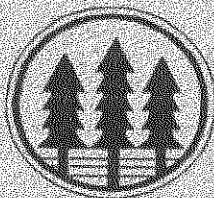
Should you have any question concerning the above, please feel free to contact me at (206) 362-8100.

Sincerely,



Denny Clouse
Operations Manager

17711 Ballinger Way NE
Lake Forest Park WA 98155
Telephone (206) 364-7711



Lake Forest Park

CITY OF LAKE FOREST PARK CERTIFICATE OF WATER AVAILABILITY

Do not write in this box

Number _____

Name _____

☒ Building Permit

☐ Preliminary Plat or PUD

☐ Short Subdivision

☐ Rezone or Other

Applicant's Name Mark J Garey

Proposed Use Single Family Residence

Location Parcel 4022900497

(Attach map and legal description if necessary)

WATER PURVEYOR INFORMATION

Domestic Service Only:

1. a. ☒ Water will be provided by service connection only to an existing 6 water main
size 20 feet from the site

Domestic, Fire and Other Service: (See back of form)

- b. ☒ Water service will require an improvement to the water system of
☐ (1) _____ feet of water main to reach the site; and/or
☐ (2) the construction of a distribution system on the site; and/or
☒ (3) other (describe) improvement may be required, depending on fire flow requirement

2. a. ☒ The water system is in conformance with a County approved water comprehensive plan
OR b. ☐ The water system improvement will require a water comprehensive plan amendment

3. a. ☒ The proposed project is within the corporate limits of the district, or has been granted Boundary Review Board approval for extension of service outside the district or city, or is within the County approved service area of a private water purveyor.
OR b. ☐ Annexation or BRB approval will be necessary to provide service

4. a. ☒ Water is/or will be available at the rate of flow and duration indicated below at no less than 20 psi measured at the fire hydrant 220 from the building/property (or as marked on the attached map).

Rate of Flow

- ☐ Less than 500 gpm (approx _____ gpm)
☐ 500 to 999 gpm
☐ 1,000 gpm or more
☐ flow test of _____ gpm
☒ calculation of 1400 gpm

Duration

- ☐ less than 1 hour
☐ 1 hour to 2 hours
☒ 2 hours or more
☐ other _____

(Commercial Building permits require flow test or calculation)

- OR b. ☐ Water system is not capable of providing fire flow

COMMENTS/CONDITIONS: (1) The fire flow requirement for the applicant's proposed project must be determined to identify if improvements to the District's system are necessary. (2) This is not an application for or approval of water service to the proposed site. A proper application must be filed with and accepted by the District before service will be provided. The District has a connection charge (also called general facilities charge) and meter installation charge for each new water service provided. It is recommended that the applicant consult with the District to obtain applicable fees, charges, and procedures which may change during the property development process.

I hereby certify that the above water purveyor information is true. This certification shall be valid for one year from date of signature.

NORTH CITY WATER DISTRICT

Agency Name

Denny Clouse

Signatory Name

Operations Manager

Title

Signature

Date

ADDITIONAL INFORMATION FOR EACH NUMBERED ITEM ON FORM FRONT

- 1A. Domestic service only is referenced in this item. 1A. Domestic service is for in-house consumption only and excludes fire protection.
- 1B. Service for a combination of domestic, fire and other conditions is referenced in this item.
- 4A. A computer analysis of the District's water system was performed for the purpose of determining the available water supply to fight a fire at the project location described above. This analysis was based on the District's existing water system, without any development related improvements. The results of the analysis indicate the fire flow capacity of the District's existing system as shown on this form at a minimum residual pressure of 20 psi at all points throughout the distribution system. Actual fire flows may vary due to water system configuration changes, time of day, demands on system, and operational parameters.

A summary of the operational conditions used in the analysis follows:

- The District was experiencing buildout peak day demand conditions.
- Supply Stations 1 and 3, 660 Zone Booster Pump Station, and Booster Stations 1 and 2 were operating. Supply Station 3 connected to 492 Zone.
- The 3.7 MG Reservoir level was drawn down 34.5 feet, and the 2.0 MG 424 Zone Reservoir level was drawn down 19 feet.
- All pressure reducing stations were operating at their normal setpoints.
- WAC 246-290-230 (6) Distribution systems - If fire flow is to be provided, the distribution system shall also provide maximum day demand (MDD) plus the required fire flow at a pressure of at least 20 psi (140 kPa) at all points throughout the distribution system, and under the condition where the designed volume of fire suppression and equalizing storage has been depleted.
- Maximum allowed velocity in the distribution system is 10 feet per second during peak day demand and fire flow conditions.