

## Sanitary Sewer & Recycled Water Standards

NapaSan Board of Directors Meeting June 23, 2021

NSD Board of Directors Meeting – June 23, 2021



# **Specifications & Details**

- Set requirements for:
  - Development construction
  - Repair/rehabilitation of private systems
  - Modifications to NapaSan facilities by other parties
- Required by NapaSan Code
- Last approved in June 2020



### **Modifications**

 Clarify document to be consistent with current practices



# 2021 Notable Changes

- -Clarify Sewer Abandonment Requirements
- -Update CCTV requirements
- –Update Residential Sewer Main Design Flows
- -Update Recycled Water Meter Detail



# Clarify Sewer Abandonment Requirements

#### A. MAIN SEWERS

Main sewer pipe that is required to be abandoned shall be abandoned by one of the following methods:

- 1. Removing the existing pipe.
- 2. Filling with slurry.
  - <u>a.</u> –Slurry shall be a flowable mix containing a minimum of 2 sack cement per cubic yard.
  - <u>b.</u>-Volume of slurry shall be calculated by the contractor and provided to the Engineer in advance of performing the work.
  - c. The contractor is responsible for conducting a pre-inspection of the pipe to determine if it's suitable to receive the material.
  - d. The contractor is required to implement a monitoring plan and shall identify relevant facilities: storm drains, streams, and surface improvements (streets, sidewalks, etc) that need to be monitored for slurry or heave as a result of abandonment procedures.
  - 2.<u>e.</u> -The sewer main to be abandoned shall be disconnected from the sewer system prior to filling with slurry.



- After conditions in Section 8.01.1 as outlined above are met, the entire job will be initially televised.
  - a. A DVD or USB Drive will be made and defects requiring correction will be noted.
- b. Each mainline segment shall have a dedicated video file. The video file shall be named according to NapaSan's standard naming convention: "Manhole 'A##-###' – Manhole 'B##-###' – Street Name".
- c. Each lateral mpeg/mpg/mp4 file shall be named with the property address then the street name
- d. Electronic version (.jpg) of still photographs saved on DVDs or USB Drives <u>1. Each jpg photograph will be named by street name then property</u> <u>address</u>
- e. Video file shall include the following information within the footage:
  - 1. Project Name
    2. Date of survey
    3. Location (Road name & address for laterals)
    4. Manhole number to manhole number (in order of inspection)
    5. Direction of survey (upstream or downstream)
    5. Time of start of survey
    7. Content (pre or post CCTV)
    8. Video footage shall include footage information.

f. Video file shall conform with the following requirements:

 Lighting and camera quality shall provide a clear, in-focus picture of the inside periphery of the sewers and laterals for all conditions except submergence.
 Under ideal conditions the camera lighting shall allow a clear picture up to five pipe diameter lengths away for the entire periphery of the sewer.
 The lighting shall provide uniform light free from shadows or hot spots.
 The video recorder shall be paused if the camera progress is stopped for a period longer than 30 seconds due to breakdown of equipment, or any purpose other than analyzing conditions of the sewer.
 During inspection, the following information shall be electronically generated, automatically updated, and displayed on the CCTV monitors: a. Survey unit location in the sewer line in feet and tenths of feet adjusted zero b. Sewer diameter

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# **Updated Residential Sewer Main Design Flows**

- THE DESIGN FLOWS WILL BE BASED ON THE FOLLOWING CRITERIA: Α.
  - 1. Average dry-weather design flow for <u>residential uses</u>a single family home shall be as follows210 gpd/ EDU;:

Categorization	gpd/unit
Multi-family Residential	<u>130</u>
Single Family Residential	<u>150</u>
1	

2. Peaking Factor: A minimum peaking factor of 2.5 shall be utilized; however, for flows less than 0.45 mgd refer to chart in Figure 10-1 at the end of this section; and



### **Update Recycled Water Meter Details**





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## Distribution

- Online at NapaSan website
- Email to distribution list
- Effective date of June 30th, 2021



### Recommendation

 Approve updates to the Sanitary Sewer and Recycled Water Standards