Fire Rescue

Resourcing of Recent Fires

CITY OF NANAIMO

THE HARBOUR CITY

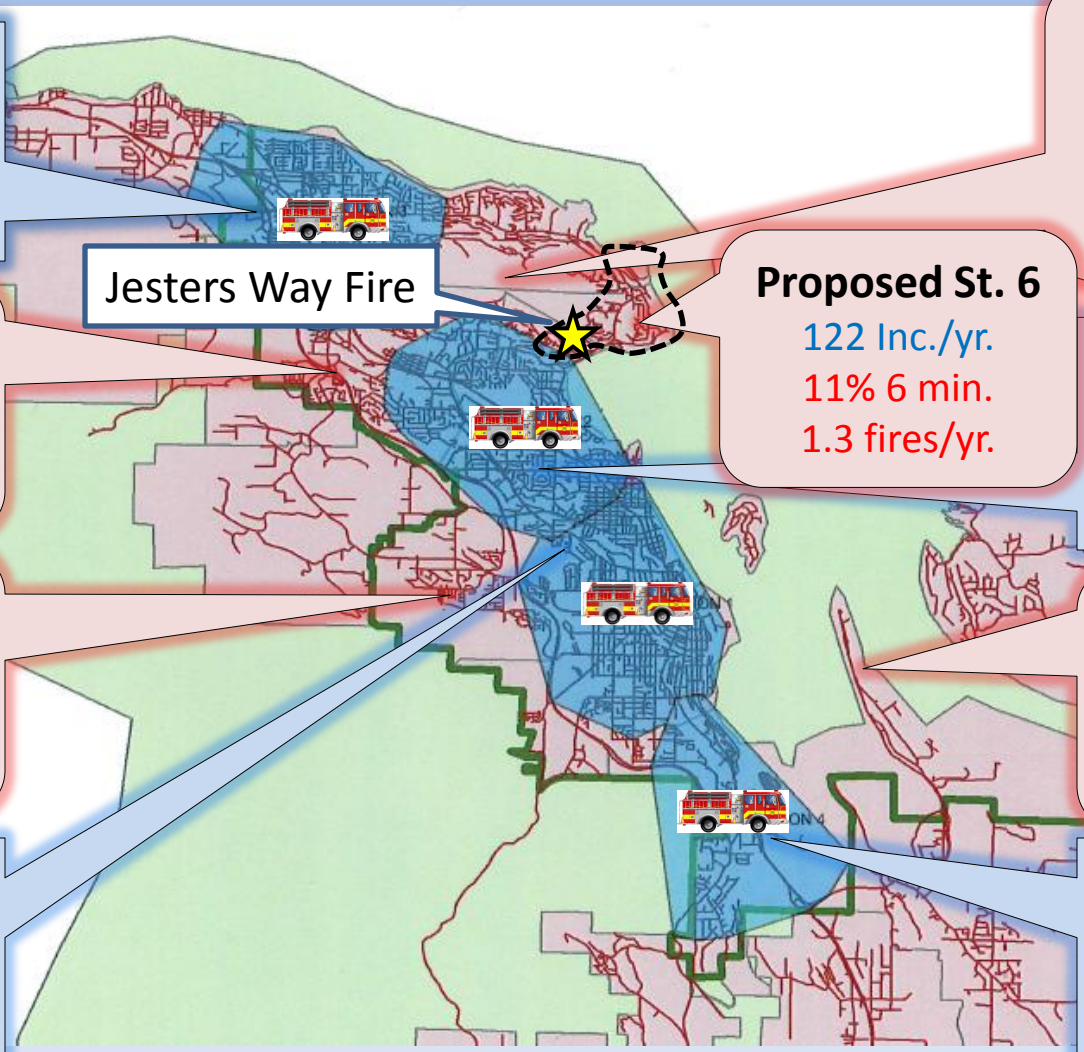
Fire Rescue Department

Council Motion

- "That Council direct staff to prepare a report regarding recent fires in Nanaimo, specifically addressing how a new Fire Station and two member engines would have effected response times and property damage; and how a new Fire Station and four member engines would have effected response time and property damage."

CITY OF NANAIMO
THE HARBOUR CITY
Fire Rescue Department

Current Resources



Station 3
1262 Inc./yr.
80.86% 6 min.
18 fires/yr.

Jingle Pot
194 Inc./yr.
34.9% 6 min.
3 fires/yr.

Westwood
303 Inc./yr.
34% 6 min.
6 fires/yr.

Station 1
2382 Inc./yr.
84.74% 6 min.
40 fires/yr.

Hammond Bay
340 Inc./yr.
(includes 122 St. 6 Inc.)
31.83% 6 min.
8 fires/yr.

Proposed St. 6
122 Inc./yr.
11% 6 min.
1.3 fires/yr.

Station 2
1718 Inc./yr.
81.04% 6 min.
30 fires/yr.

Duke Point
20 Inc./yr.
< 10% 6 min.
1 fire/yr.

Station 4
366 Inc./yr.
72.35% 6 min.
4 fires/yr.

Jesters Way Response

- First unit at 6:50 with fully developed fire conditions
- Full assignment (12 FF) at 11:18
- Expected outcomes:
  - Longer response time
  - Greater property damage
  - Interior rescue & fire attack capability of first arriving unit at 6:50 (4 FF)
  - Exterior fire attack capability at 6:50



11:18



10:37



6:50

CITY OF NANAIMO
THE HARBOUR CITY
Fire Rescue Department

New Station with 4-Member Engine

- First unit at 5:00 when fire is smaller
- Full assignment (12 FF) at 10:37
- Expected outcomes:
  - Faster response time
  - Reduced property damage
  - Interior rescue & fire attack capability upon first arriving unit at 5:00 (4 FF)
  - Exterior fire attack capability at 5:00



10:37



6:50



5:00

CITY OF NANAIMO
THE HARBOUR CITY
Fire Rescue Department

New Station with 2-Member Engine

- First unit at 5:00 when fire is smaller
- Full assignment (14 FF) at 11:18
- Expected outcomes:
  - Shorter response time
  - Reduced property damage
  - Interior rescue & fire attack capability upon second arriving unit at 6:50 (6 FF)
  - Exterior fire attack capability at 5:00



11:18



10:37



6:50



5:00

CITY OF NANAIMO
THE HARBOUR CITY
Fire Rescue Department

New Station with 2-Member Rescue (Medical Unit)

- First unit at 5:00 with no fire attack capability
- Full assignment (14 FF) at 11:18
- Expected outcomes:
  - Shorter response time
  - Greater property damage
  - Interior rescue & fire attack capability upon second arriving unit at 6:50 (6 FF)
  - No exterior fire attack capability until 6:50



11:18



10:37



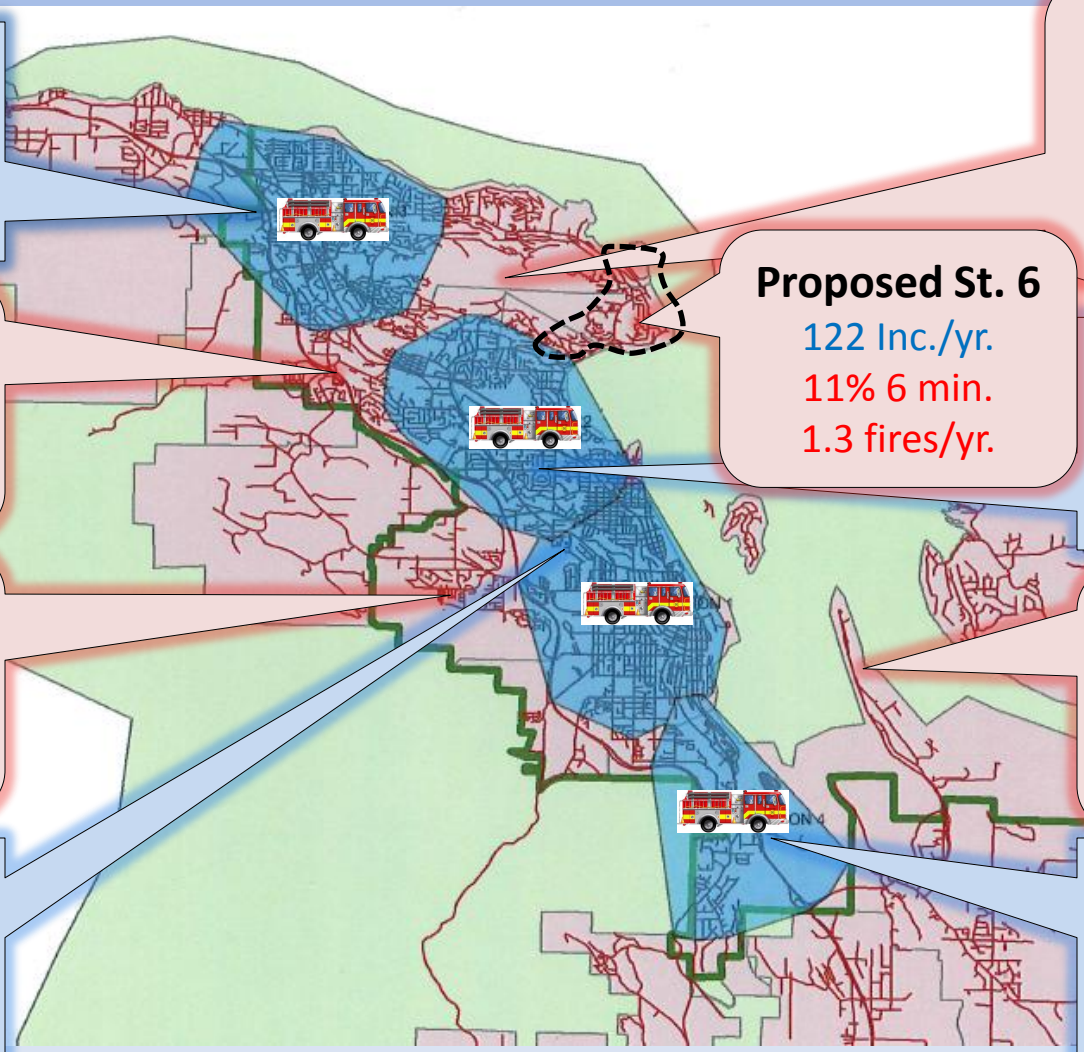
6:50



5:00

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Summary

Traditional Model:

- 4-member engines in all locations including:
  - 4 Existing stations
  - 4 developing areas in future (a new 4-member engine for each new station)
- $2.5m per year staffing cost per 4-member engine
- Towards providing 6 min. coverage and 4 members

Alternative Approach:

- Maintain 4-member engines in 4 existing stations
- Evidence-based approach to staffing developing areas over time using Integrated Risk Management (IRM)
  - Less than 4-member engines
  - Staffing for historical demand
  - Busy time staffing
- Towards providing 6 min. coverage with smaller units

Questions

CITY OF NANAIMO

THE HARBOUR CITY

Fire Rescue Department