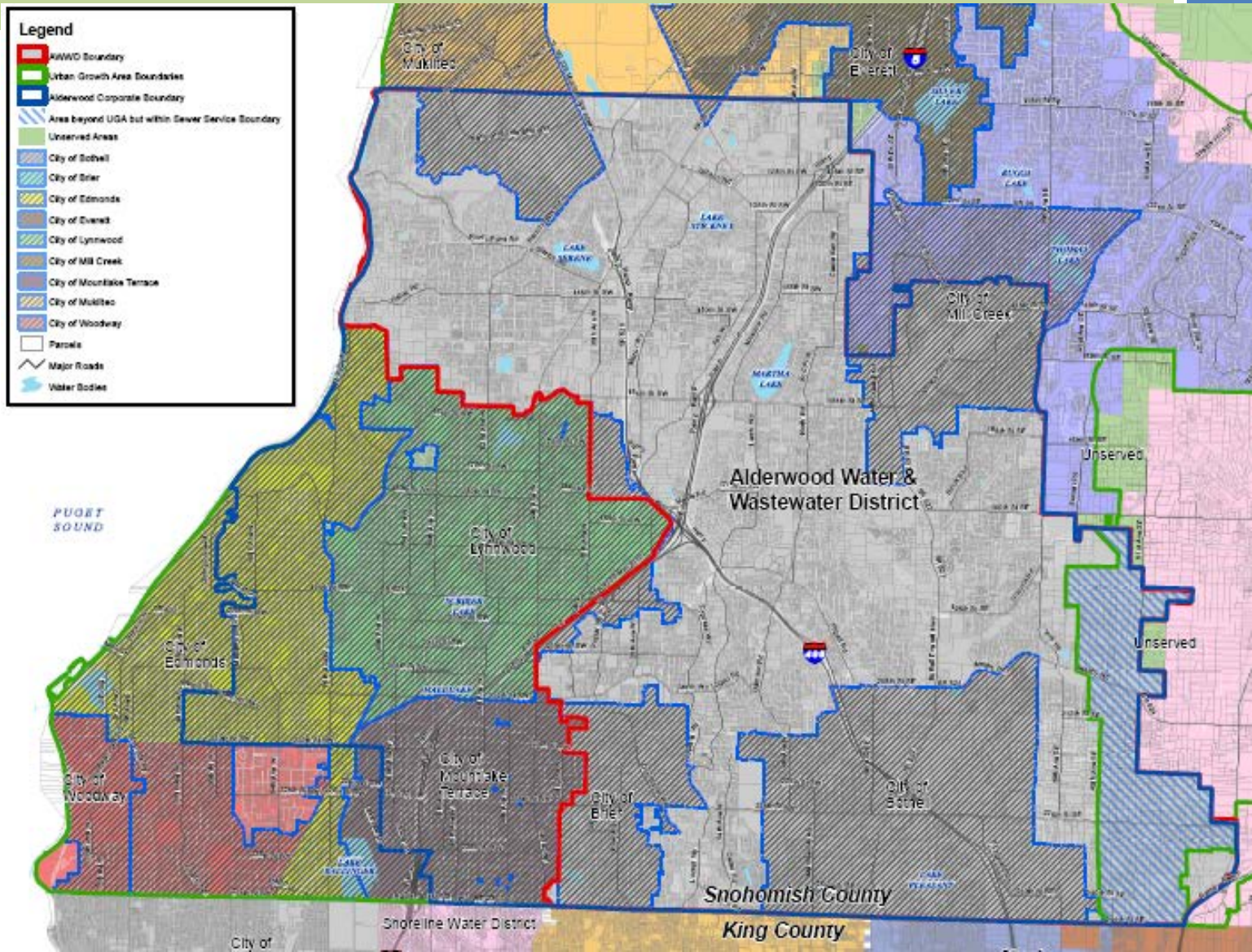


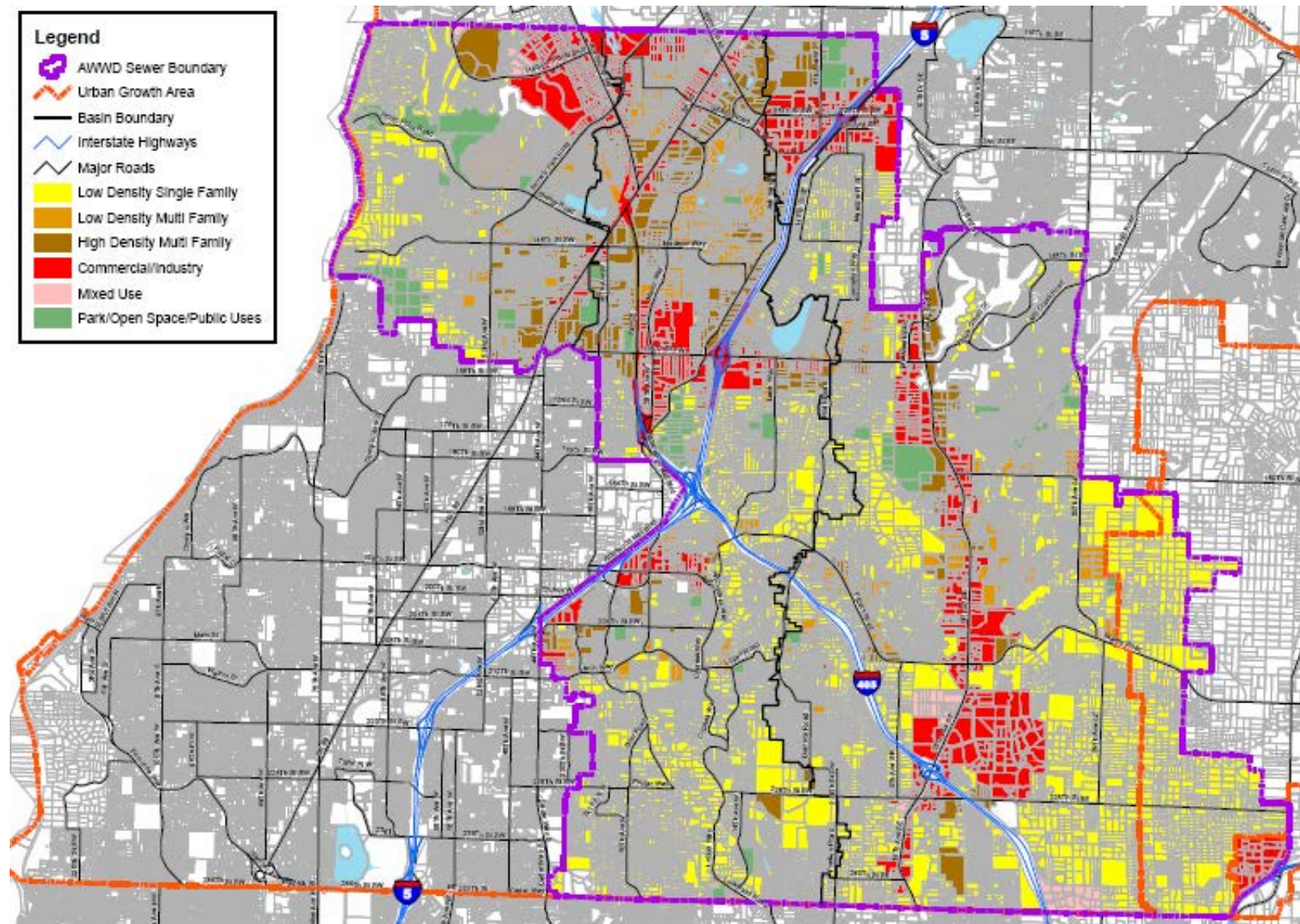
Flow Monitoring

Paul Richart, Capital Projects Manager
Mike Oleson, Field Operations Manager
Josiah Hartom, EIT.

About Alderwood



Sewer System



Why monitor?



Why Monitor?

Picnic Point WWTF

- Major I/I events damaging treatment processes

Capital Planning

- 73 Scheduled capacity driven projects

System I/I

- Assess Inflow and Infiltration throughout the entire system

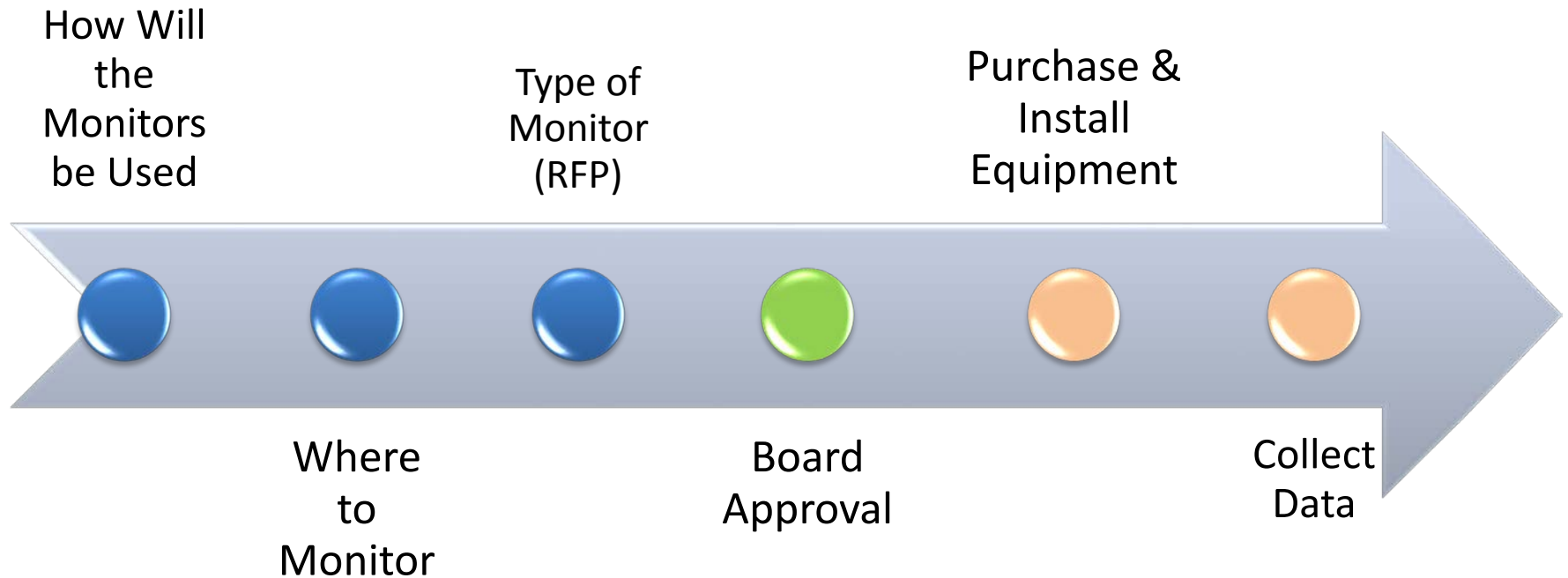
Warning

- Ability to alarm system for high flows

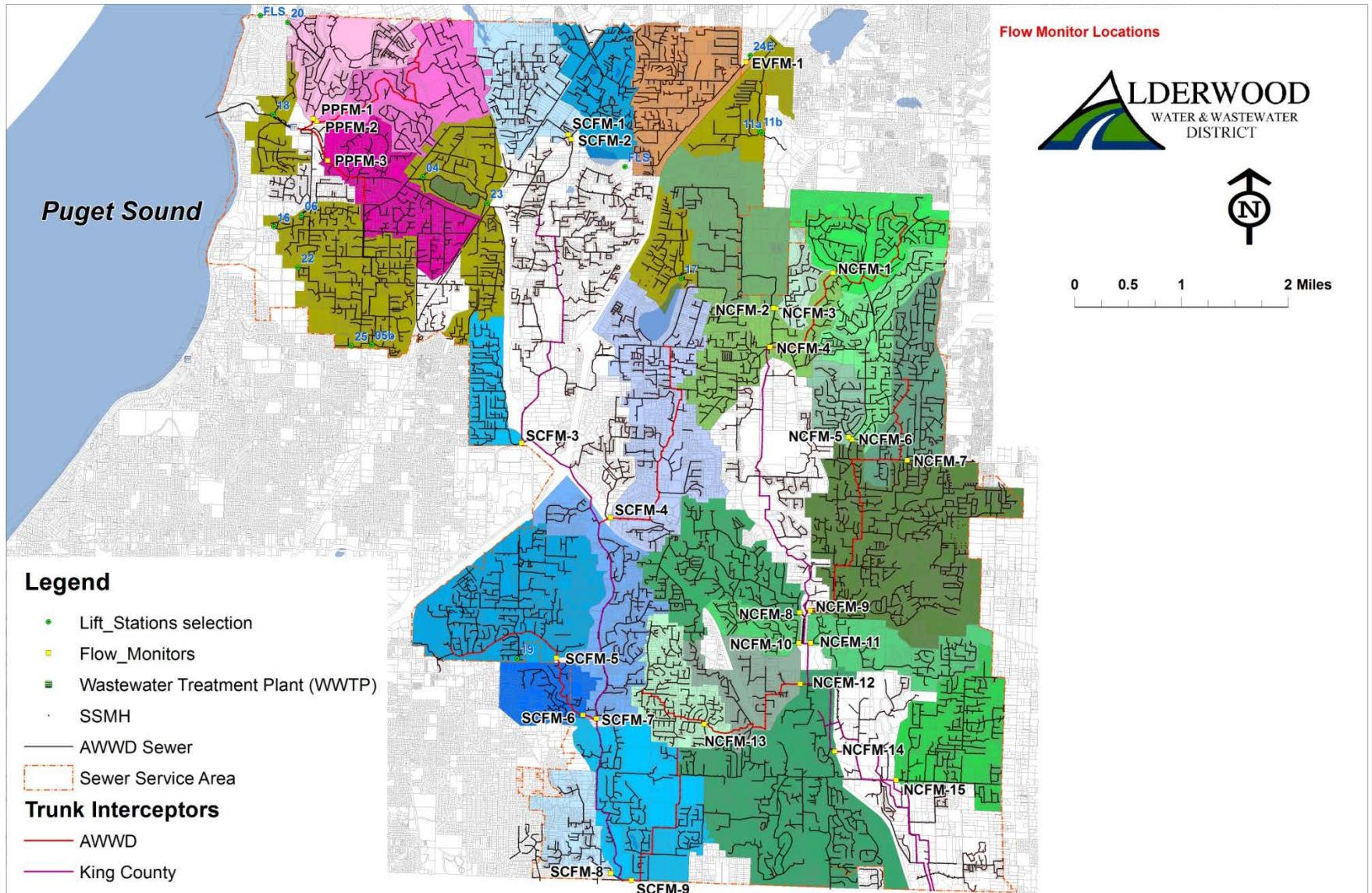
Coordination

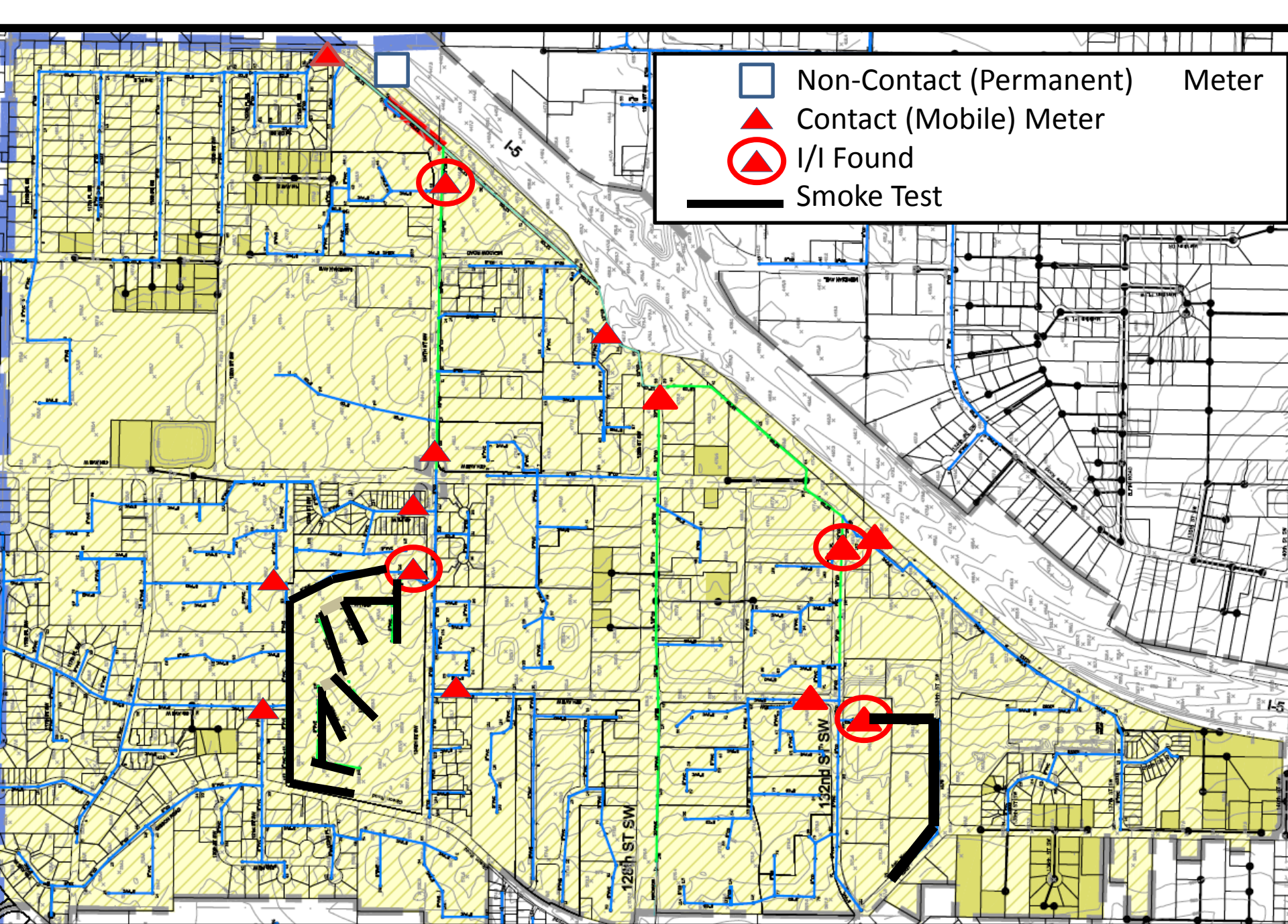
- Prioritize maintenance

The Process



Where





RFP for Equipment

District issued RFP for
flow monitoring
equipment

District wanted
different options on
types of flow sensors

Received proposals
from 3 vendors



About the RFP

The Proposal:

- How each vendor would be ranked
- Contact and Non-contact sensors
- **% off list price**

Evaluation

- Life and Upfront Cost
- Equipment
- Maintenance Costs
- Not solely lowest submitted price.



Results

- “Not one technology could fit all applications”
- Both Hach and ADS Awarded with Purchasing Contracts.



Remaining Tasks

Purchase
Order

- Submit Initial order to Hach and ADS

Installation

- Install permanent monitors at mapped locations

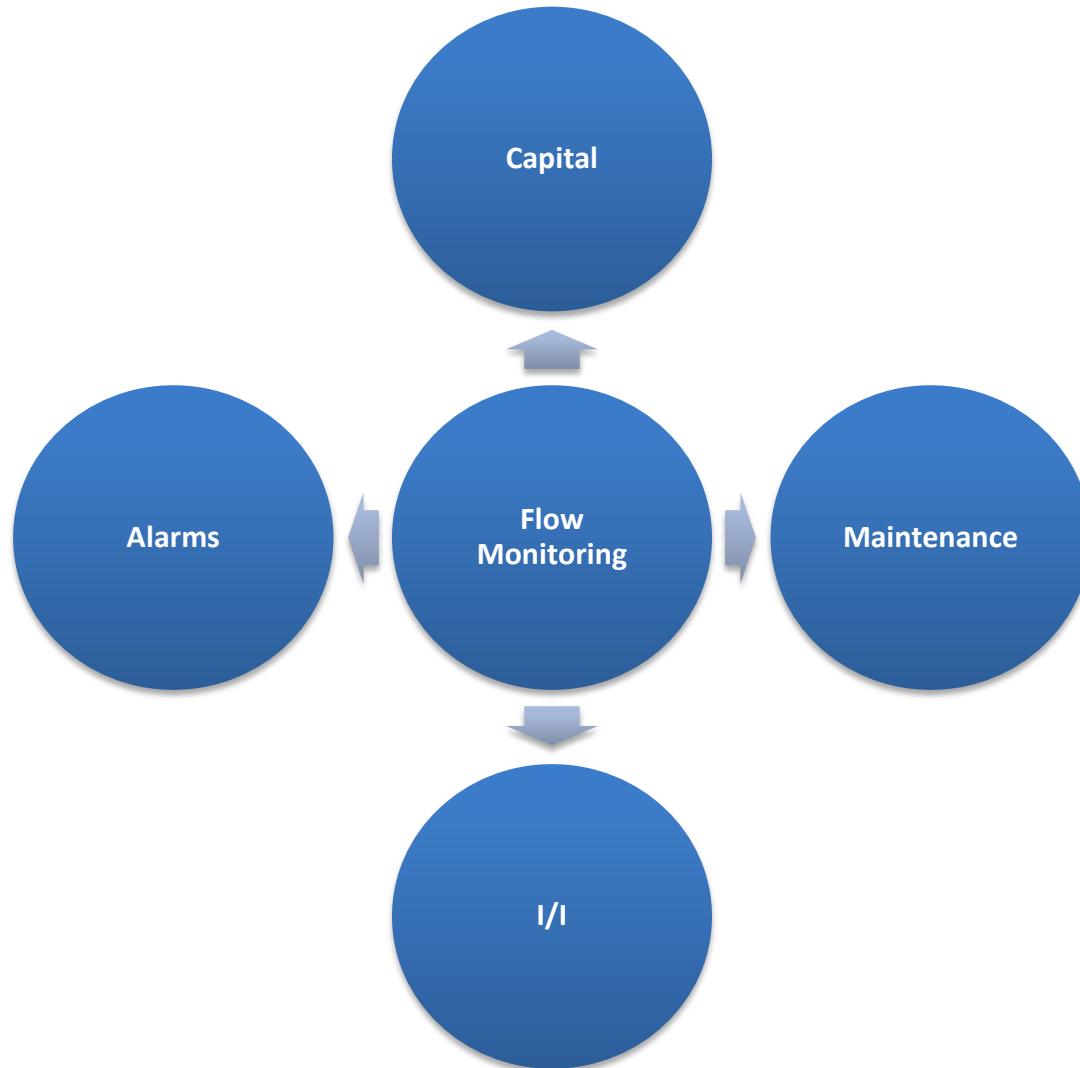
Installation

- Wireless data loggers on Mobile carrier for data needs

Collect Data

- Collect flows to begin general assessment

Final Picture



Conclusion

Major Process

RFP process gave the District flexibility in equipment

% off list price provided major savings

Just the beginning



