

# Battery-Electric Locomotive (BEL) Projects

May 14, 2025

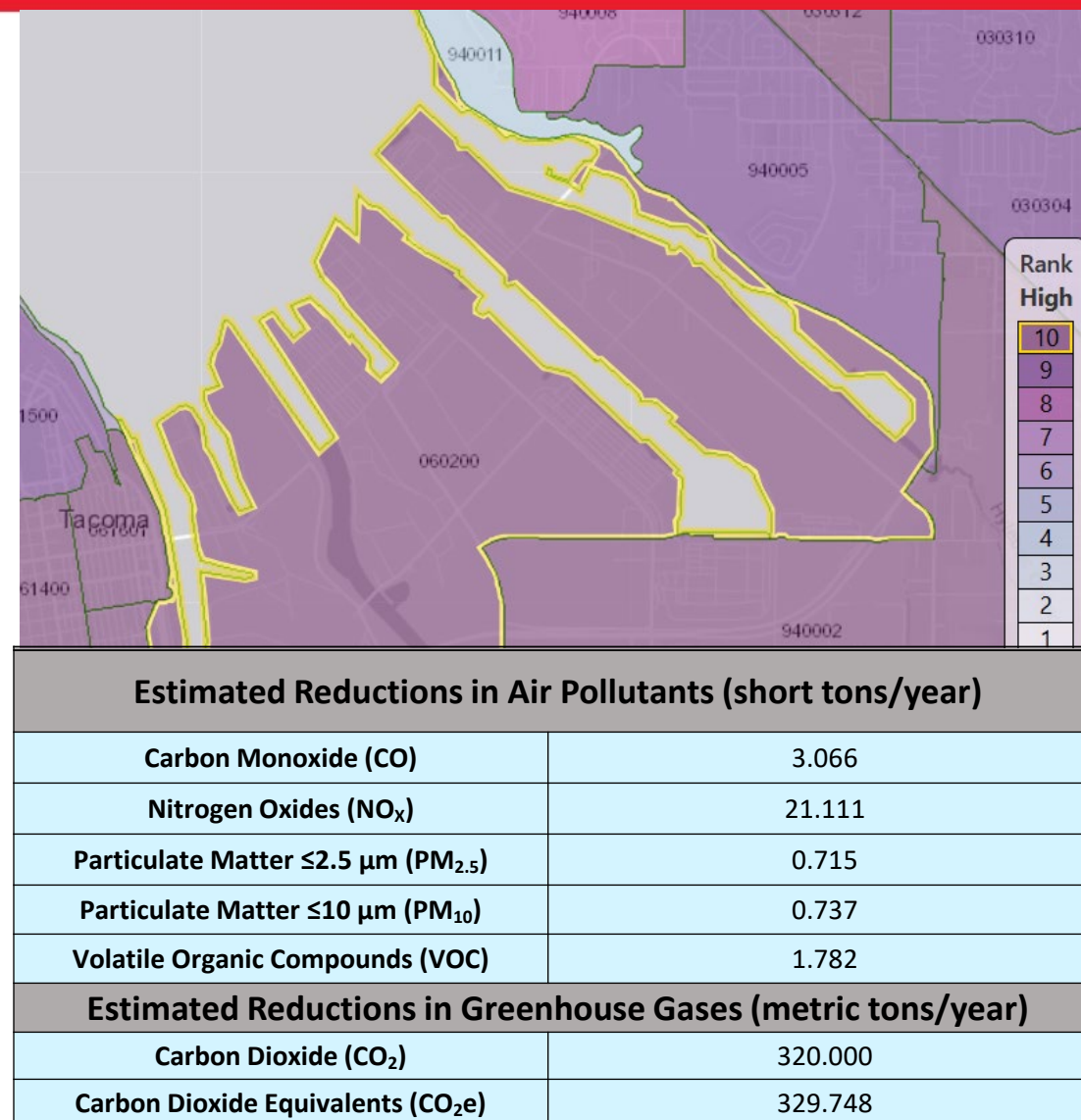


**TACOMA RAIL**  
TACOMA PUBLIC UTILITIES

- Purpose
- Two projects and funding
  - Project A: 2 locomotives and 2 charging stations
  - Project B: 1 locomotive
- Onsite improvements
- Historical timeline
- Current & future timeline

# Purpose

- Reduce Tacoma Rail's reliance on fossil fuels
  - Up to 100,000 gallons per year saved
- Tacoma Rail operations occur within the highest (10/10) index for diesel pollution and disproportionate health impacts
  - WA Dept. of Health [Environmental Health Disparities Map](#)
- Supports
  - [City of Tacoma Climate Action Plan](#)
  - [Northwest Ports Clean Air Strategy](#)
  - [Puget Sound Regional Council Vision 2050](#)
- FRA Locomotive Emissions Comparative Tool calculations





# Project A vs Project B



- **Total Project cost estimate is \$19M - \$20M**
  - 2,000 hp locomotives
  - Total funding \$16M, Tacoma Rail obligated for the difference
    - Funding contingency discussion across scenarios

## Project A

- **Two Locomotives**
- **Two chargers**

Funding Agencies	Amount	
CCA	\$4,950,000	State
CRISI	\$4,095,000	Federal
PSCAA CMAQ/FHWA	\$3,645,000	Federal

## Project B

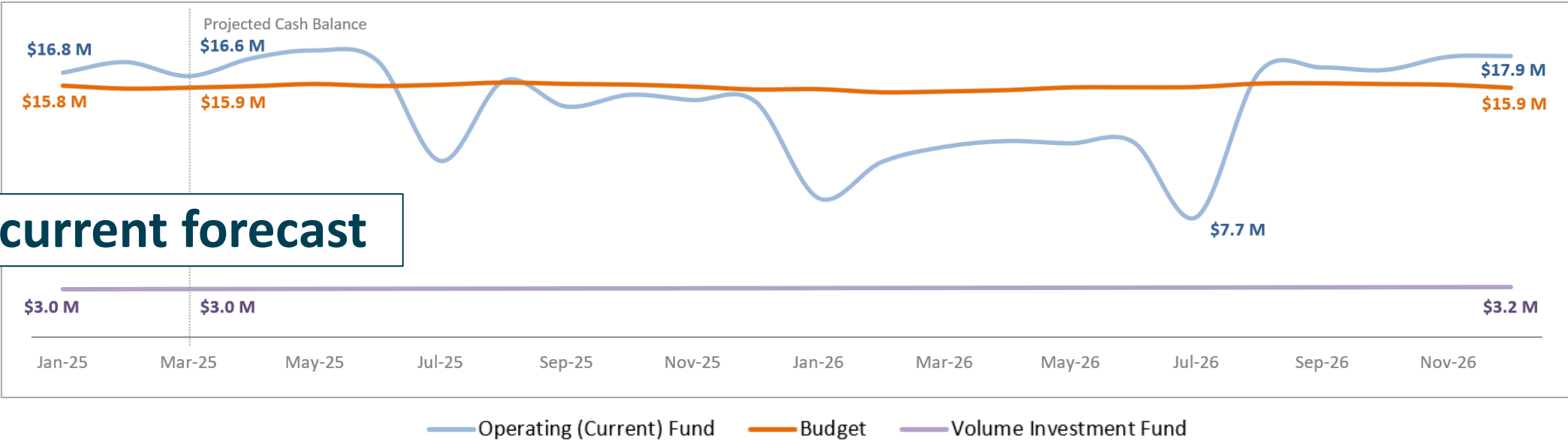
- **One locomotive**

Funding Agency	Amount	
VW Settlement	\$3,300,000	State

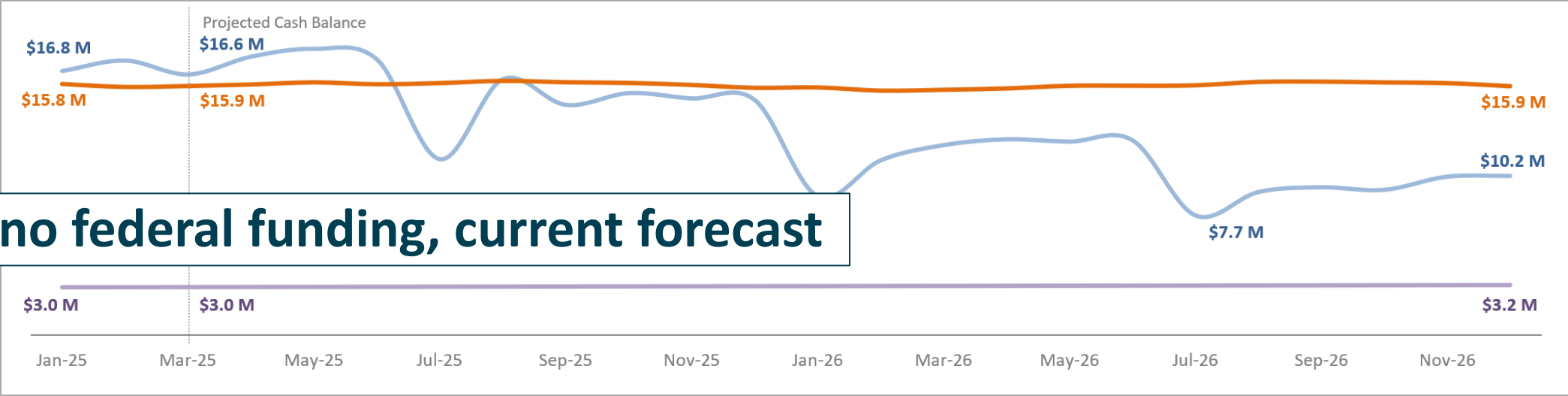
# Scenarios



Project A + B, current forecast



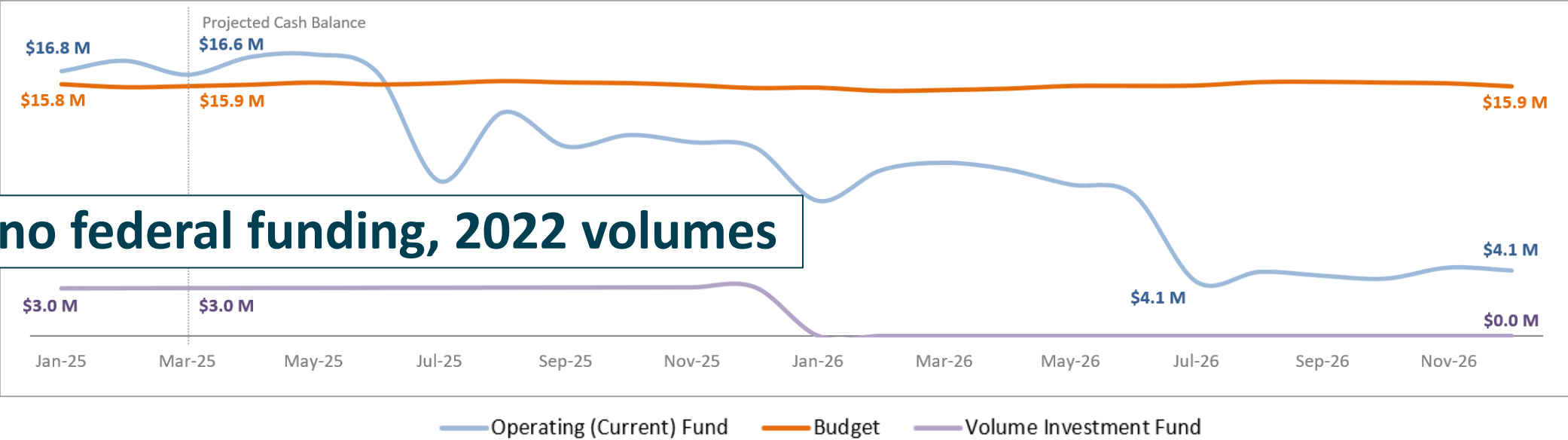
Project A + B, no federal funding, current forecast



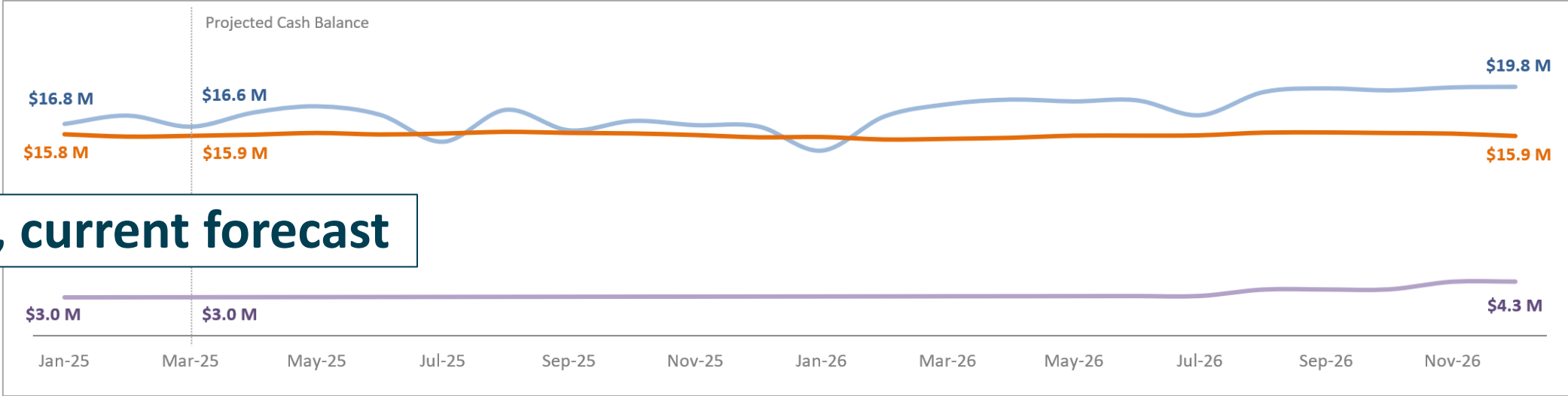
# Scenarios, continued



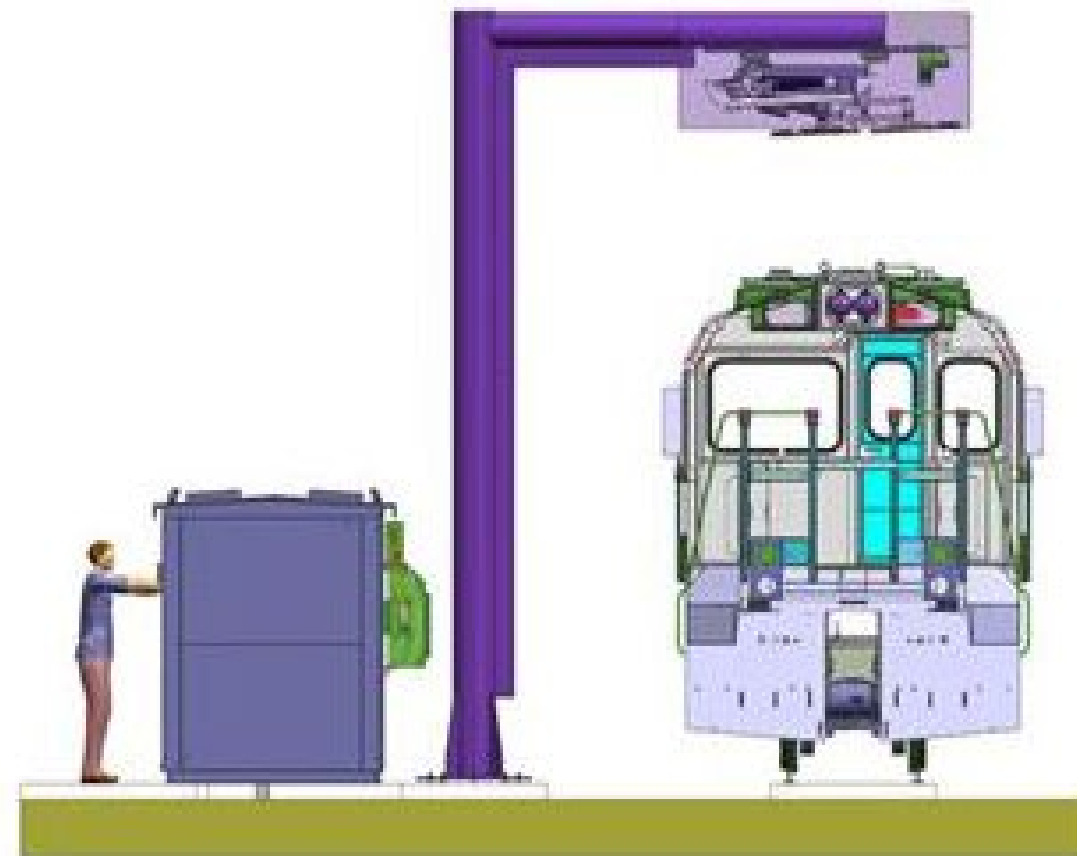
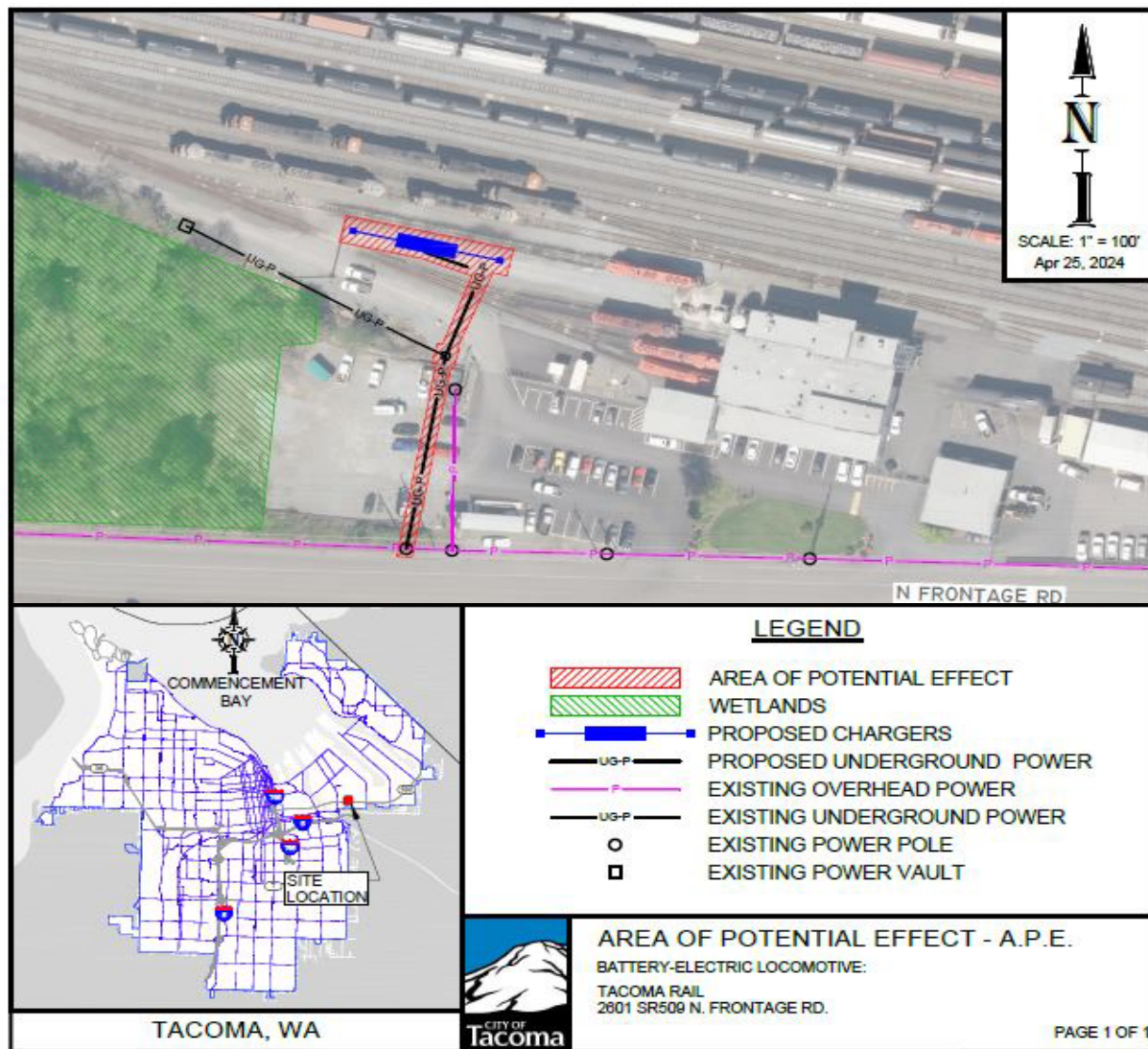
**Project A + B, no federal funding, 2022 volumes**



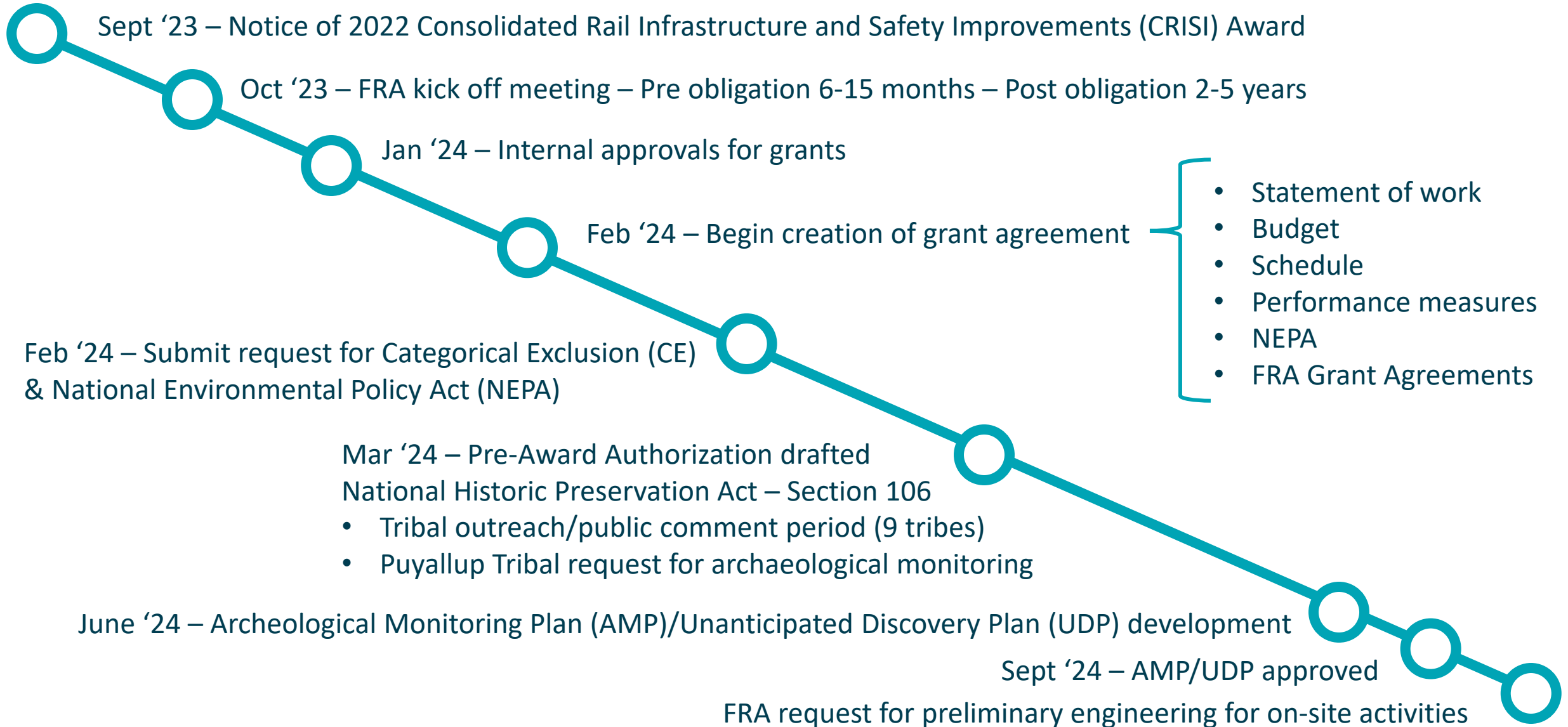
**Project B only, current forecast**



# On-site Improvements

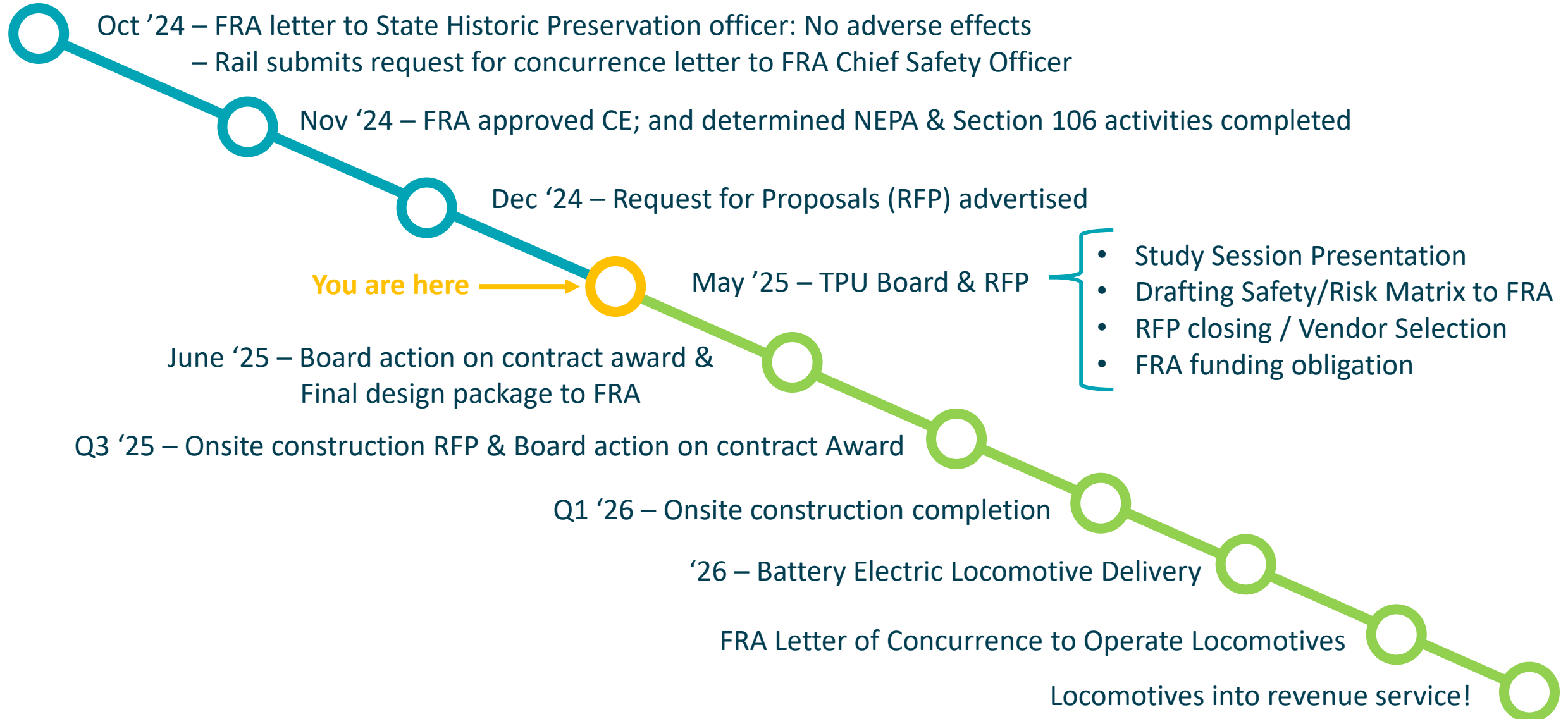


# Historical Timeline





# Current & Future Timeline



## Questions?