
West Point Influent Screenings Improvement Project Briefing

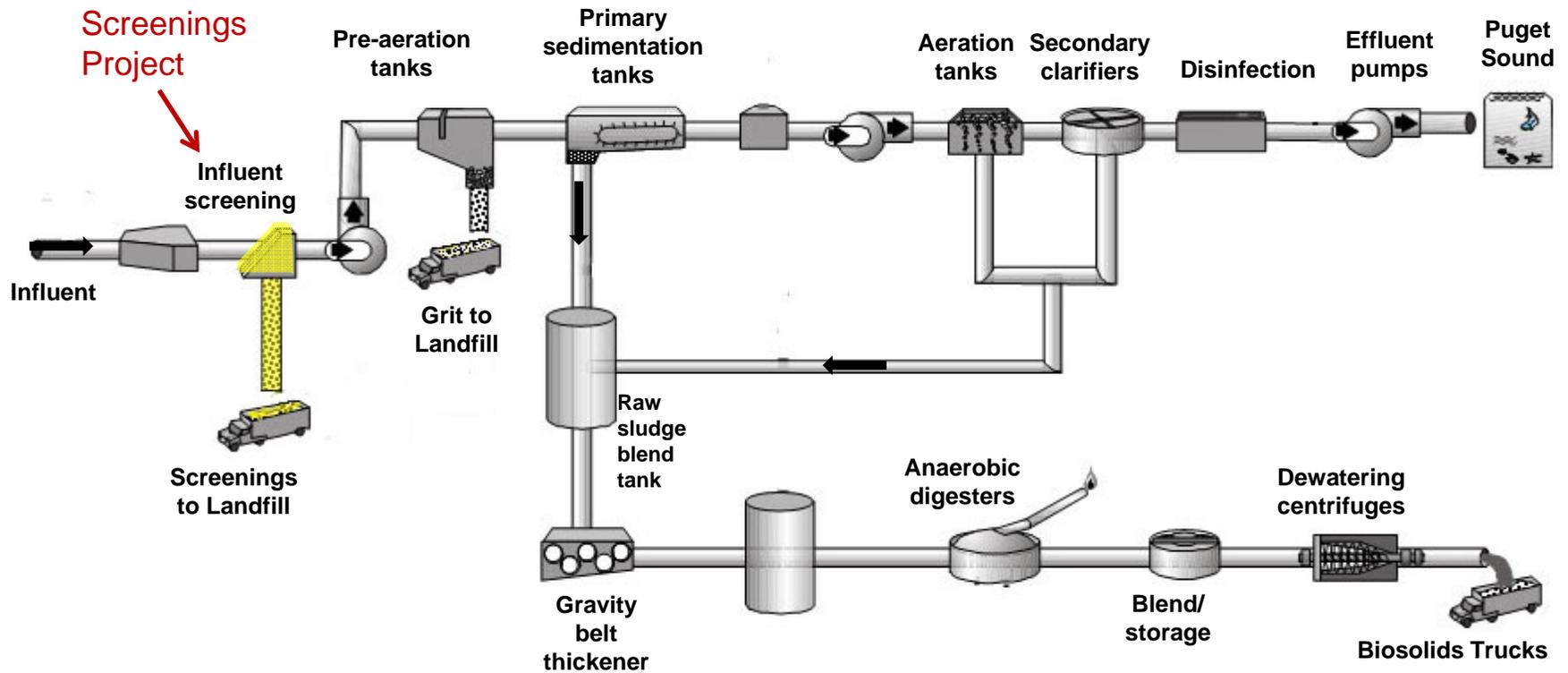
Magnolia Community Club Board

November 15, 2011

Today's Presentation

- Background
 - Project overview
 - Project need
 - Project history
 - Project location
- Project Design
- Building Height
- Truck Trips
- Nuisance Odor
- Construction Impacts

The project will upgrade the screenings facilities at West Point



Why are we doing this project?

- Meet the requirements of the Washington State Biosolids Regulation (WAC 173-308-205)
 - Install 3/8-inch or finer bar screen somewhere in process
 - Intent to remove “manufactured inerts” from the biosolids
- Existing bar screens at West Point have 5/8-inch spacing

Why are we doing this project?



Existing 5/8-inch bar screens at West Point



- Upgrade a critical asset
 - Screenings facilities are almost 20 years old
 - Screens see heavy service handling combined flows
 - Material is bypassing screens

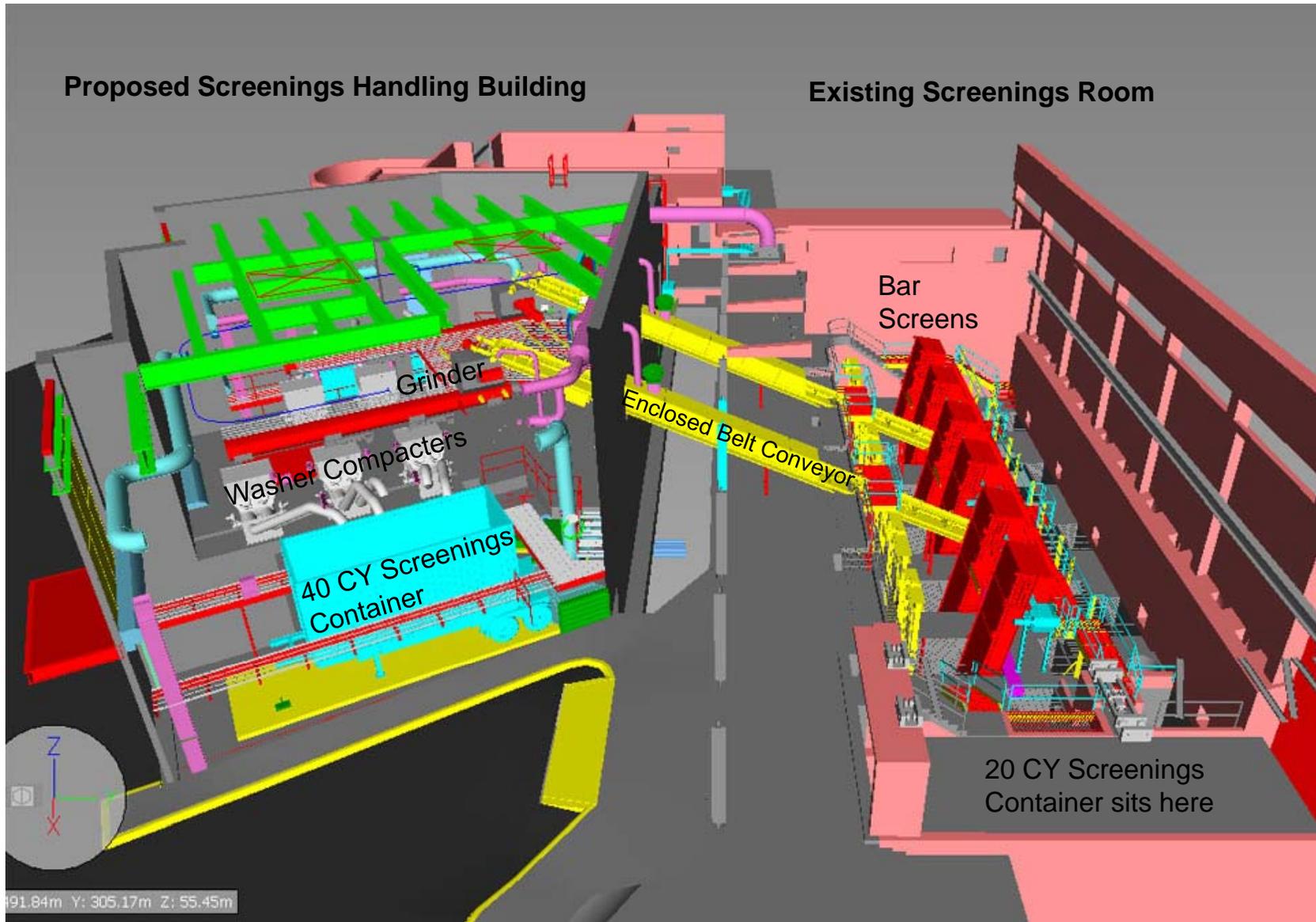
Project history: why is a new building needed?

- WTD started design on this project previously
 - Goal was to fit new process in existing building
- Design was infeasible
 - Building expansion was required, which triggered costly code updates
 - Space constraints led to concerns about safe operation and maintenance
- Current design scope
 - Maintain existing building footprint
 - Construct a new building to house the screenings handling equipment

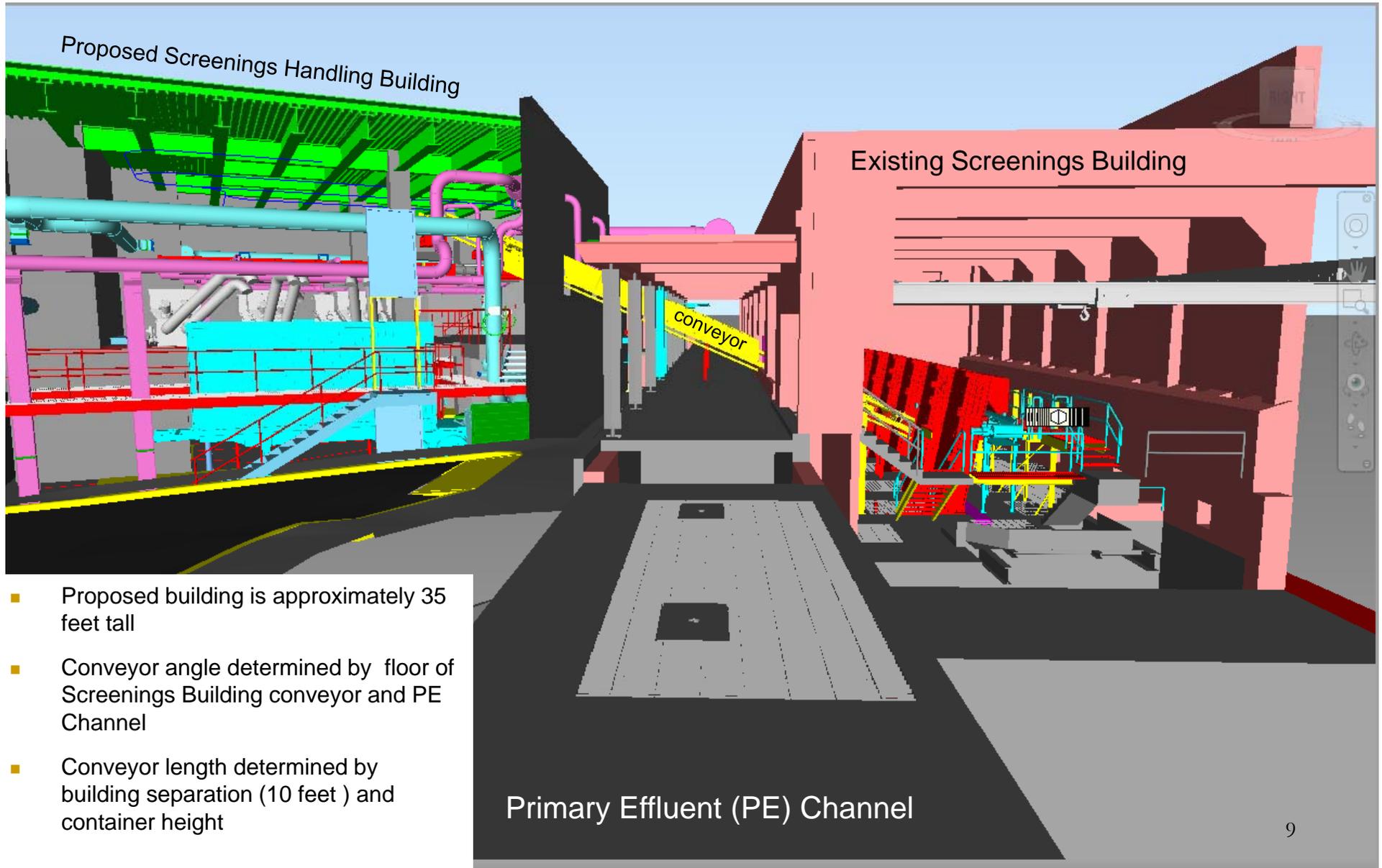
Project Location



Project Design (4-min. animation available)

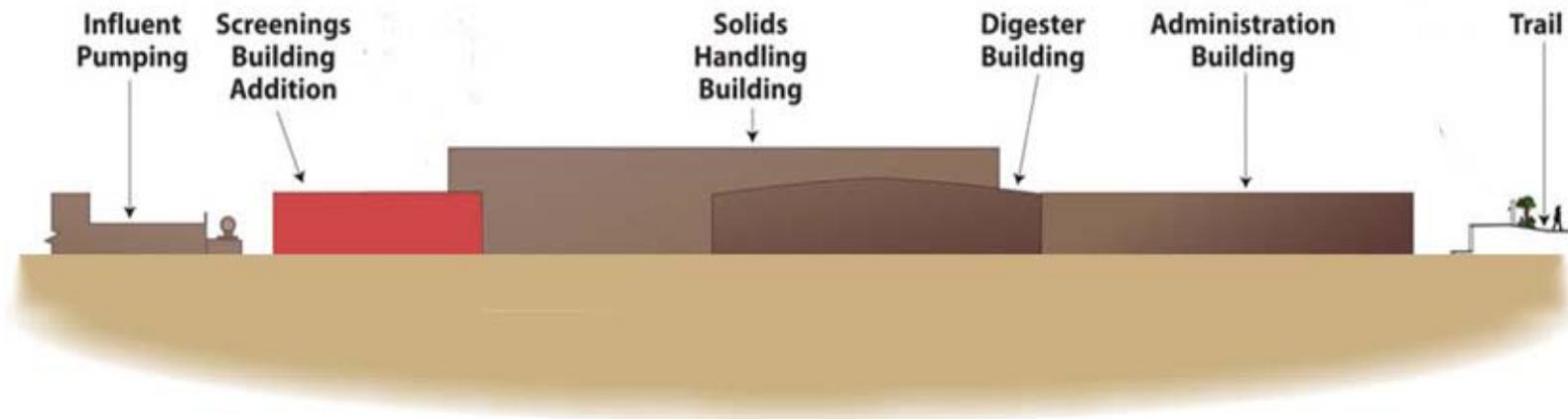


What factors drive the building height?



What will people see?

- New building is lower than most adjacent buildings



How will the new screenings process affect truck traffic?

- There will be no increase in annual truck trips
- New screens will generate 5 times more material, resulting in about 200 additional screenings trips per year
- But, this material will be much drier and more compact
- This reduces the number of biosolids trips by up to 480 trips per year
- The result is a potential reduction of up to 280 total truck trips per year

New screenings trucks much shorter overall



Existing screenings trucks have double trailers



New screenings trucks will have single trailers, which are approximately half the length of the existing trailers

- New screenings trucks will be about half the length of the existing trucks

How are we controlling nuisance odors?

- We expect this project to reduce the potential for nuisance odors
 - No more screenings stored in the existing building
 - Less frequent need to open the door in the existing building
 - Screenings stored in new building will be much cleaner and drier
 - Container change outs will occur much quicker

Existing Screenings



Existing screenings at West Point

Future screenings



Future screenings will be much cleaner, drier, and more compact

What can you expect during construction?

- Construction will occur between April 2013 & December 2014
- Construction traffic
 - Approximately 800 total truck trips
 - Most trips in mid-2013 during building construction
 - Approximately 40 vehicular trips per day
- Construction noise
 - Retaining wall, vegetated hillside, and location of West Point should minimize impacts to residents and park users
 - Comply with City of Seattle noise ordinance
- People can contact WTD with construction concerns or complaints

- Link to project information on the WTD Website
 - <http://www.kingcounty.gov/environment/wtd/About/System/West/Plant/Projects/Screenings.aspx>



Questions?