West Point Influent Screenings Improvement Project Briefing

Seattle DPD Public Hearing

June 12, 2011

King County

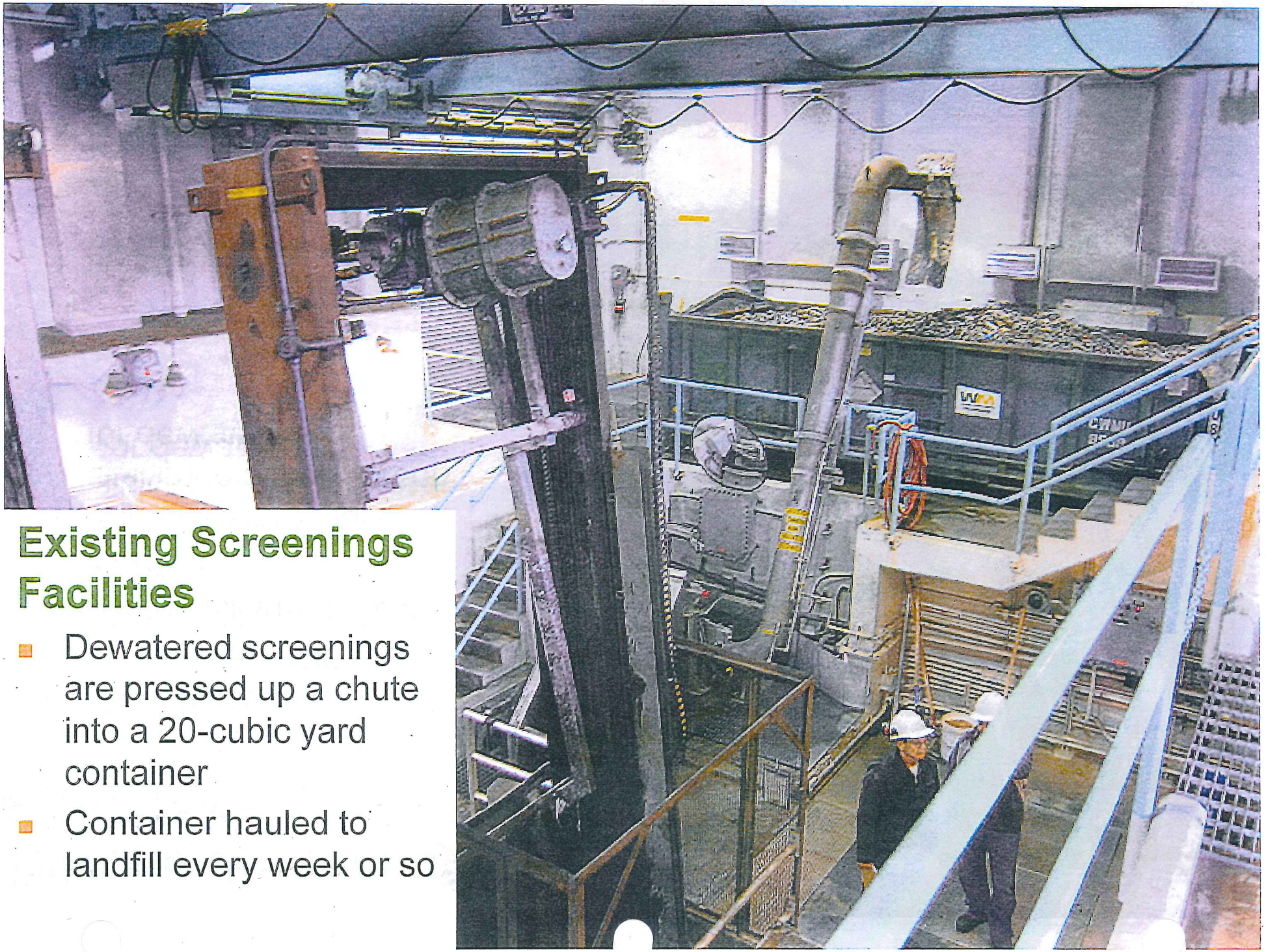
Department of Natural Resources and Parks
Wastewater Treatment Division

City of Seattle Hearing Examiner
EXHIBIT
Appellant
Respondent ✓ ADMITTED ✓ 10
Department DENIED
FILE CF #311872, 3012604

Project Location

Existing Screenings Facilities

- View inside the screenings room
- Six travelling-rake bar screens
- Screened material is sluiced to a step screen for dewatering



Existing Screenings Facilities

- Dewatered screenings are pressed up a chute into a 20-cubic yard container
- Container hauled to landfill every week or so

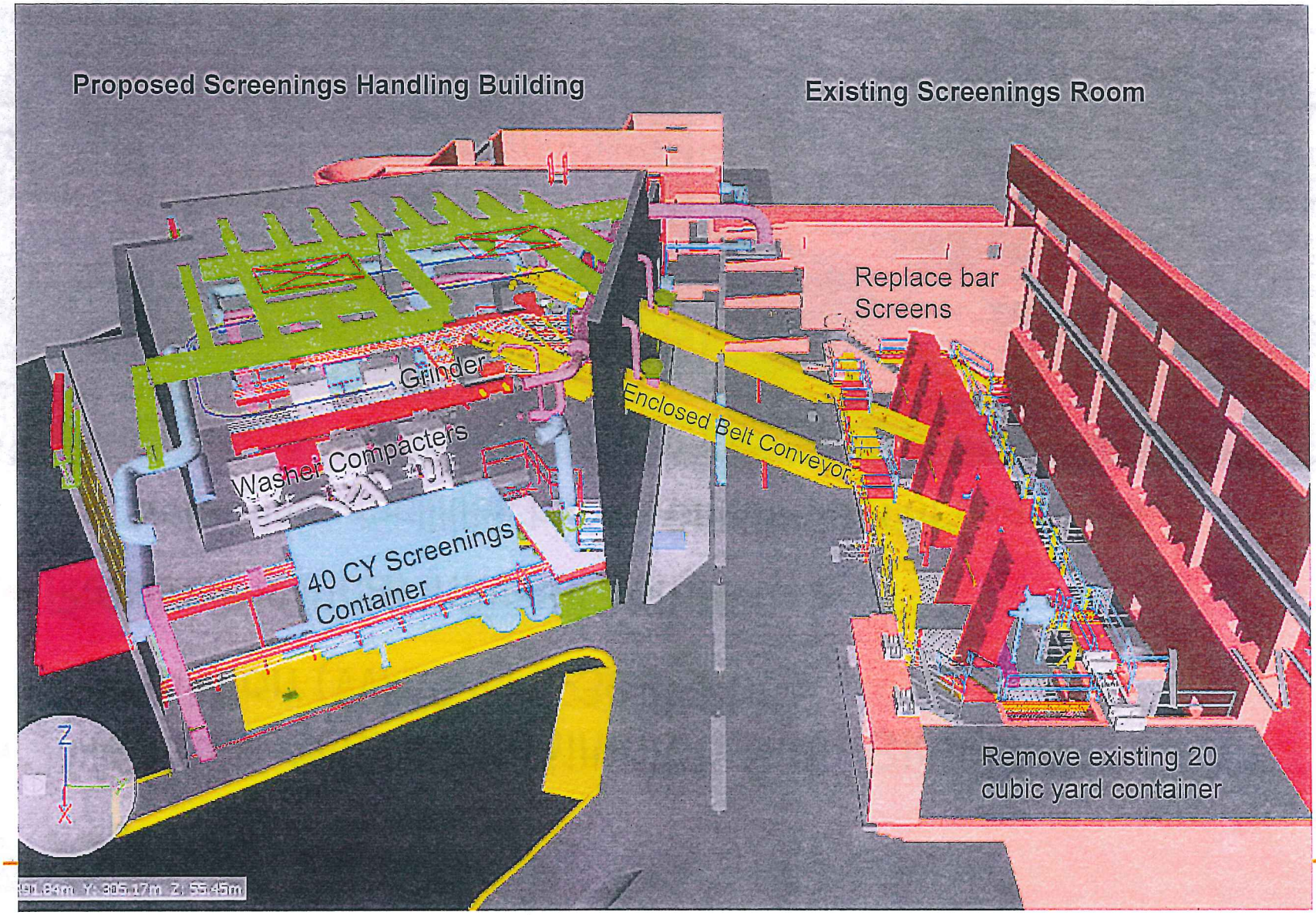
Project Need

- Meet the recent Washington State Biosolids Regulation (WAC 173-308-205)
- Replace critical infrastructure
  - Screenings facilities have reached end of useful life

Existing bar screens are warped and deformed from years of heavy service

Inert material bypasses screens and clogs pipes & pumps and takes up digester capacity

Proposed Project

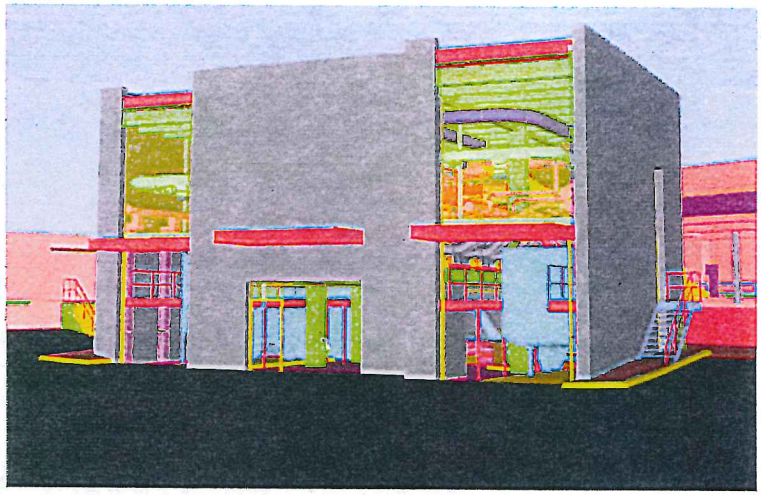


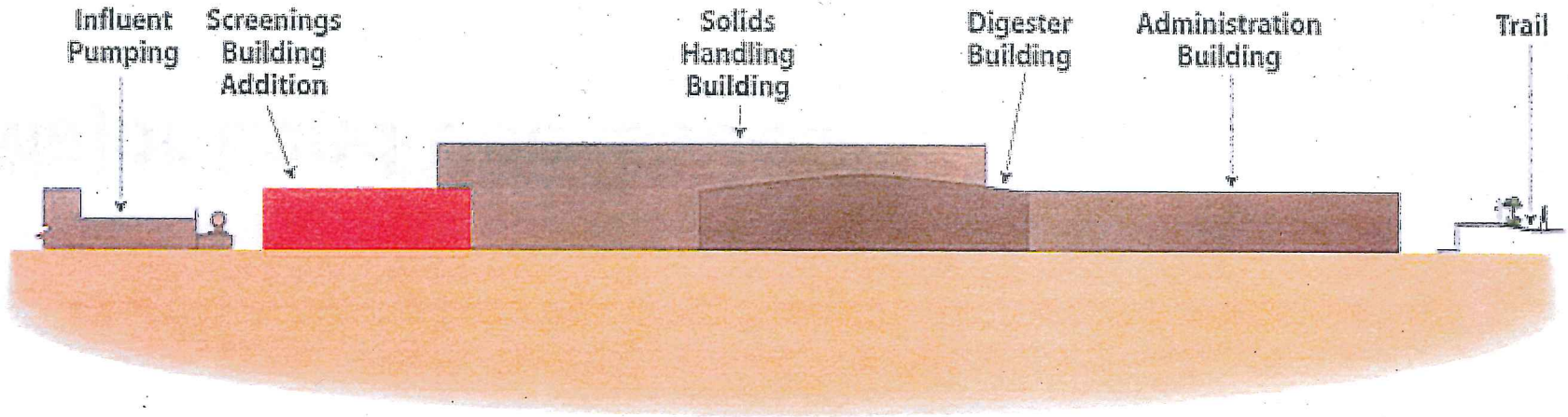
Major Land Use Issues

SMC 23.51A.002: Public Facilities in Single Family Zones

Visual Impacts

- No view impacts to the community
- New building is lower than most adjacent buildings
- New building will not affect views from trails in Discovery Park





Odors

- Much less potential for nuisance odors
- Currently, odors from screenings and raw influent can escape during container change-outs, which can take 2 hours
- After project implementation, screened material will be much dryer and cleaner
- Stored in new building – no odors from raw influent
- Container change outs will occur much quicker because containers are on wheeled chassis

Existing

Future

Truck Trips

During Construction

(20-month period)

- 800 truck trips total (400 round trips)
- 40 vehicle trips per day (20 round trips)

After Construction

(Overall reduction in truck trips)

- Expected net reduction of 280 total trips per year
- More inert solids leaving the plant as clean, dry screenings than as relatively wet biosolids
- No increase in employee commuter traffic

New screenings trucks much shorter overall

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

Existing screenings trucks have double trailers

New screenings trucks will have single trailers

Noise

- During Construction
  - Short-term increase related to construction
  - Noise impacts expected to be negligible to residents and park users
  - Construction noise and working hours in compliance with City of Seattle noise ordinance
- After Construction
  - No increase in noise expected
  - New bar screens will generate the same or less noise
  - Machinery in screenings handling building is totally enclosed
  - Machinery not inherently noisy

Keeping the community informed

- Community meeting, events and briefings
- Newsletters and press releases
- Work with Friends of Discovery Park and Seattle Parks Department
- Project website - http://www.kingcounty.gov/environment/wtd/About/System/West/Plant/Projects/Screenings

King County
Creating Resources from Wastewater
WEST POINT NEWS
Spring 2011
West Point Treatment Plant Project Update

What the community can expect during construction:

- Construction April 2013 to December 2014
- Traffic – approximately 40 vehicular trips per day
- Noise – minimized due to location behind retaining wall and vegetated hillside, will comply with City of Seattle noise ordinance
- Contact WTD with construction concerns or complaints