

RETENTION AND REPAIR COSTS FOR EXISTING TRANSFER STATIONS

Transfer Plan Review Workshop 1

July 26, 2013



Department of Natural Resources and Parks

Solid Waste Division

Background

Applicable 2006 Transfer Plan conclusions and recommendations:

- Algona, Factoria, Houghton, and Renton Transfer facilities do not meet required level-of-service standards
- Aging facilities, have space and building constraints that limit capacity for recycling services, and structural deficiencies that require significant modifications to meet safety, health and other code requirements
- Replace Bow Lake and Factoria at existing and adjacent sites
- Close Algona, Houghton and Renton and replace with new facilities

Opportunity

- Current Transfer Plan Review will examine varied combination of transfer system modernization under current economic conditions
- Evaluation of existing facility conditions and associated repairs that will sustain operation of these stations through 2040 will inform this review

Purpose

- Discuss key results of the condition assessment of the existing transfer facilities
- Discuss related total repair cost estimates that will enable the operation of these facilities through 2040, if new facilities are not built
- Get feedback!!!

Associated Decision Making Information

- Condition assessment data
- Deficiency costs
- Present value costs *
- Incremental retention costs*
- Impacts*

**Not part of today's presentation*

Condition Assessment: Key Systems

- Foundation and substructure (e.g., footings, foundation walls, slabs)
- Structural system (e.g., floor, roof, frame)
- Exterior wall system
- Heating, ventilation, and cooling
- Plumbing system
- Electrical service
- Safety standards
- Site work and improvements
- Other structures (e.g., retaining walls, bridges)

Condition Assessment: Factoria



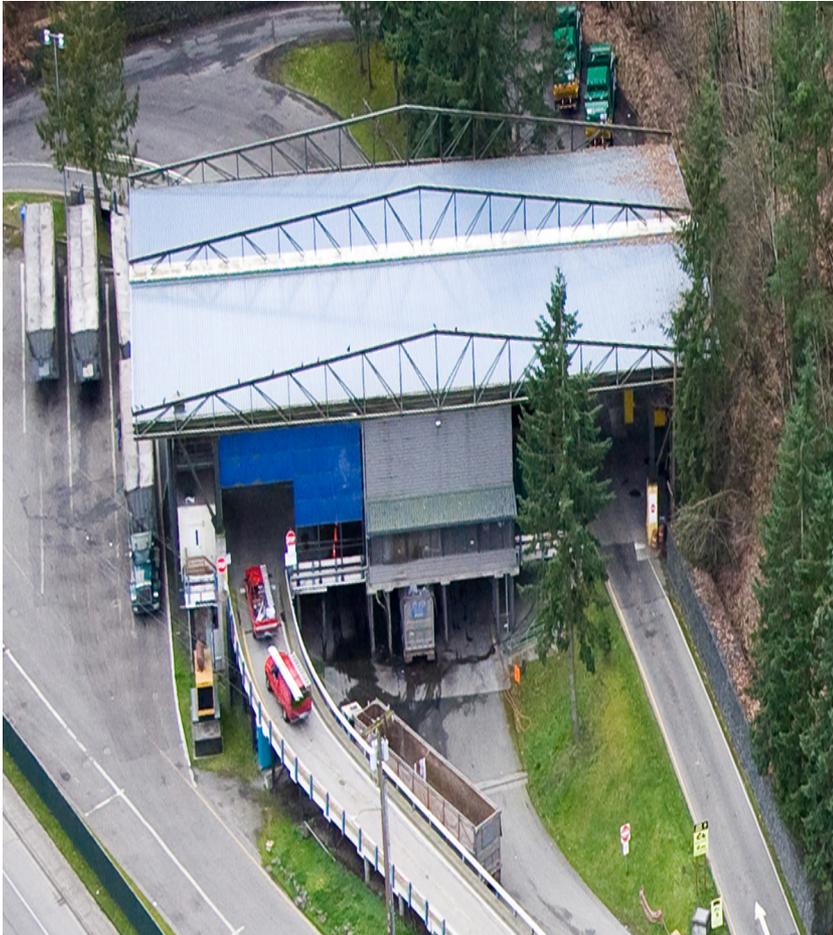
Rated Poor	Required Improvement
<ul style="list-style-type: none"> • building structure • building floor • household hazardous waste (HHW) facility • top-load compactor system • employee trailer 	Replace: <ul style="list-style-type: none"> • roof and strengthen building structure • building floor • top-load compactors • HHW facility • employee trailer
Rated Fair	Required Improvement
<ul style="list-style-type: none"> • weight scales • wastewater system • site surface conditions 	Repair: <ul style="list-style-type: none"> • weight scales • pump stations • parking areas and tunnel pavement

Condition Assessment: Houghton



Rated Poor	Required Improvement
<ul style="list-style-type: none"> • building floor • top-load compactor system 	Replace: <ul style="list-style-type: none"> • floor • top-load compactors • employee trailer
Rated Fair	Required Improvement
<ul style="list-style-type: none"> • weight scales • wastewater system • site surface conditions 	Repair: <ul style="list-style-type: none"> • weight scales • pump stations • parking areas and tunnel pavement

Condition Assessment: Algona



Rated Poor	Required Improvement
<ul style="list-style-type: none"> • foundation • building floor • top-load compactor system 	Replace: <ul style="list-style-type: none"> • foundation timber piles • floor • top-load compactors
Rated Fair	Required Improvement
<ul style="list-style-type: none"> • weight scales • wastewater system • site surface conditions • employee trailer 	Repair: <ul style="list-style-type: none"> • weight scales • pump stations • parking areas and tunnel pavement • employee trailer

Condition Assessment: Renton



Rated Poor	Required Improvement
<ul style="list-style-type: none"> • building floor • top-load compactor system • employee trailer 	Replace: <ul style="list-style-type: none"> • building floor • top-load compactors • employee trailer
Rated Fair	Required Improvement
<ul style="list-style-type: none"> • weight scales • wastewater system • site surface conditions 	Repair: <ul style="list-style-type: none"> • weight scales • pump stations • parking areas and tunnel pavement

Cost Model and Assumptions

- The following costs are quantified
 - Design
 - Building construction
 - Operating and maintenance
- General assumptions
 - Planning level contingency
 - Assumes equipment purchased new
 - Standard construction contracting
 - Existing service levels will remain the same

Deficiency Cost Estimates

Factoria Transfer Station = \$ 8.3 million

Algona Transfer Station = \$ 6.2 million

Houghton Transfer Station = \$ 1.7 million

Renton Transfer Station = \$ 1.7 million

Total deficiency costs = \$17.9 million

Note: Estimates are in 2013 dollars



King County

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