



Solid Waste Facility Replacement Planning Project Workshops

SOLID WASTE FACILITY INITIAL ALTERNATIVES DEVELOPMENT AND SCREENING CRITERIA REVIEW - WORKSHOP #4 GUIDE

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2. Existing Solid Waste Facility Condition Assessment

Assessment of the Existing SWF – A high level condition assessment of the existing SWF at Port Townsend was completed to identify any physical condition and functional performance gaps. The results of this assessment are presented in Table 1.

Table 1 – Existing SWF Condition Assessment Results¹

Criteria/Indicators	Meets Current Needs (Yes/No)
Tonnage and Vehicle Flow Capacity	No
Emergency Storage, Buffer & Expandability Capacity	No
Site Access	No
Scales and Scale house	No
Recyclable Collection and Processing Areas	No
Transfer Building /Waste Receiving Operations	YES
Waste Loading Operations	YES
Employee Facilities	YES
Public Facilities	No
Queuing and Traffic Circulation	No
Transfer and Recycling Building Structure	Yes
Operating Equipment	Yes
Facility Management Cost	No
Statutory Compliance Risk	Yes
Impact of Facility on the Environment	Yes
Note:	
1. There are 15 performance Criteria/Indicators. The existing SWF does not meet eight or 53%	

3. SWF Improvement Objectives, Initial Screening Criteria and Indicators

An assessment of the Solid Waste Facility Task Force needs was completed to identify their solid waste facility current needs and aspirations. These needs and aspirations, combined with statutory facility requirements defined by the solid waste division (SWD) were translated into the “SWF Improvements, Needs and Functional Objectives” (or “SWF Improvement Objectives”) presented in Table 2.

SWF Improvement Objectives – are specific statements of a desired condition(s) or targets that shall be achieved in order to address Jefferson County’s statutory goals, stakeholder needs and existing solid waste facility condition and functional Gaps.

Alternatives Screening Criteria and Process – The initial SWF alternatives’ screening process will be guided by the project planning Vision and Goal Statements, and the screening criteria and indicators defined as follows:



- **Vision** - A Solid Waste Facility that is located at an optimal site(s), adequately funded, accepted by the community, and meets both current and future needs of the citizens of Jefferson County for the next 40 years, while complying with regulatory requirements, as well as fiscal constraints, as defined by the County.
- **Goal** - Recommend an optimal Solid Waste Facility Alternative(s) and a corresponding funding Plan that meets the County’s long-term Solid Waste Facility Needs for the next 40 years.
- **Initial SWF Alternatives Screening Criteria and Indicators** - are the standards or specific aspect of the effectiveness (quantitative or qualitative) of the SWF improvement actions that are evaluated to assess their suitability to achieve the desired objectives. To pass the initial alternative screening stage, all potential alternatives are considered on a pass/fail basis. These criteria are subject to change as alternatives are refined and evaluated at different stages of the project, and in consideration of SWFTF and Community feedback.

The SWF Improvement Objectives, Initial Alternatives Screening Criteria and Indicators are summarized in Table 2

SWF Improvement Objectives	Initial SWF Alternatives Screening Criteria	Indicators
<ul style="list-style-type: none"> • Improve facility capacity to adequately and safely handle County’s projected solid waste and recyclable materials for the present and future (SWD, SWFTF) 	Facility waste and recycling capacity	<ul style="list-style-type: none"> • 20- year overall facility capacity • Expandability for additional 20-year capacity
<ul style="list-style-type: none"> • Improve major facility buildings and other infrastructure to extend their service life to a minimum 30 years 	Building and infrastructure service life	<ul style="list-style-type: none"> • Building and infrastructure service life is at least 30 years.
<ul style="list-style-type: none"> • Improve safe and adequate access to the site (SWFTF, SWD). • Achieve full accessibility for all customers to ensure compatibility and compliance with Americans with Disabilities Act (ADA) (SWFTF). • Minimize customer wait time and queuing along site access road (SWFTF, SWD). 	Site Access (<i>Queuing and Traffic Circulation to Scales</i>)	<ul style="list-style-type: none"> • Separation of operations and public access. • Queuing length inbound and outbound meets required goal: <ul style="list-style-type: none"> ○ < 10 minutes on weekends. • No traffic backing-up onto adjacent roadways. • Access free recycling and free amenities areas separately.
<ul style="list-style-type: none"> • Improve scale length to accommodate larger trucks and trailer combinations (SWD) • Improve the location of scales to reduce operational delays (SWD) 	Scales and Scale House	<ul style="list-style-type: none"> • Adequacy of scales’ size to weigh all vehicles including transfer trailers. • ADA compliant scale house. • Weight -based recording of all inbound vehicle waste quantities. • Capability to perform vehicle load inspections. • Separate dedicated scales



SWF Improvement Objectives	Initial SWF Alternatives Screening Criteria	Indicators
<ul style="list-style-type: none"> • Reduce onsite queuing and traffic congestion both on and off site (SWD, SWFTF) • Separate commercial and self-haul traffic loop (SWD) 	<p>Queuing and Traffic Circulation, on-Site</p>	<ul style="list-style-type: none"> • Low wait times. Wait times are < 10 minutes on weekends. • No multiple loops through facility.
<ul style="list-style-type: none"> • Increase tipping floor capacity to accommodate increased refuse tonnage and expanded material recovery types and volumes (SWD, SWFTF). • Improve roof of the tipping floor building to ensure longer life (SWD). • Improve Waste Compaction Equipment efficiency and effectiveness (SWD). • Improve Waste loading cycle time and payloads (SWD). 	<p>Waste Receiving and Loading Operations</p>	<ul style="list-style-type: none"> • Tipping operations enclosed within a building • Waste storage capacity meets 20-year JC forecast needs • Waste storage capacity meets 5 -day average capacity for 20-year JC forecast needs. • Separate tipping areas for commercial and self-haul customers. • Operations does not need to shut down floor to clear • Large vehicle trailer maneuvering • Separate exit and entrance to/from the transfer building for commercial and self-haul customers. • The number of tipping stalls, especially on weekends, meets JC 20-year forecasted vehicle capacity. • Capacity for safe storage of rejected material or incidental HHW. • Sustainable building roof • Increased compaction Efficiency and density. • Avoidance of cross-traffic movements while shuttling empty and full trailers between staging and loading areas. • There is sufficient space for empty trailer and full trailer staging areas.
<ul style="list-style-type: none"> • Expand material diversion and recycling capacity and services to provide reuse services – [1]a “drop and take” drop-off spot for items to be reused rather than landfilled, [2] for partner-driven efforts to support additional recycling or reuse. E.g., Styrofoam recycling operation; [3] for diversion of edible food; [4] recycle agricultural plastics to meet the changing needs of County residents (SWFTF). 	<p>Drop-Off Recycling</p>	<ul style="list-style-type: none"> • Increased number of recyclables drop off stalls providing the ability to collect additional commodities or to expand capacity for existing commodities. • Covered No-fee and Fee- Recyclables collection area. • Service access for recycling containers without interfering with public vehicles or blocking roadways. • Easy access and avoidance of cross-traffic patterns.



SWF Improvement Objectives	Initial SWF Alternatives Screening Criteria	Indicators
<ul style="list-style-type: none"> Expand the recycling area to accommodate the handling of increased types of materials that could be kept from going to the landfill. The majority of the property is the closed landfill which cannot be redeveloped for industrial use (SWFTF). 		<ul style="list-style-type: none"> Can physically expand the extent of recycling area or add new areas. ADA accessible bins. Capacity to change and increase the types of materials accepted in both free and non-fee areas.
<p>Improve Employee Facilities (non-scale attendant)</p>	<p>Employee Facilities</p>	<ul style="list-style-type: none"> Convenient parking Men's/women's separate standard restrooms. Break and lunch/meeting room Separate restroom facilities convenient to staging area Employee room and restrooms for operators on the lower level
<p>Improve Quality Onsite SWF Public Facilities</p>	<p>Public Facilities</p>	<ul style="list-style-type: none"> Visitor Parking Public telephone and restrooms. Public Education and Information Areas(s). Community Meeting/use space.
<p>Establish meaningful and useful Partnerships (e.g., Clallam County and other waste diversion and recycling organizations and businesses) to enhance material diversion and recycling (SWFTF).</p>	<p>Partnerships</p>	<ul style="list-style-type: none"> Asphalt recycled quantities Organics diversion quantities HHW collection Materials reduction
<ul style="list-style-type: none"> Reduce the carbon footprint (SWD, SWFTF) Improved air quality (SWFTF). Achieve statutory regulatory and permit compliance (SWD). 	<p>Environmental Quality</p>	<ul style="list-style-type: none"> Control of GHG emissions Key facilities are Green Buildings Water conservation in buildings Fuel efficient operating equipment <p>Statutory regulatory and permit Compliance</p>
<ul style="list-style-type: none"> Improve Operations and Maintenance cost effectiveness (Compactors at the Quilcene drop box, SWD) Minimize rising repairs costs to the loading dock and asphalt around the recycling center (SWD) Achieve optimal facility costs based on environmental benefits (SWFTF) 	<p>Operations and Maintenance Cost</p>	<ul style="list-style-type: none"> Cost effectiveness Cost of facility sustainability features