



Solid Waste Management Facility Siting Study

Solid Waste Advisory Committee (SWAC) Meeting

April 16, 2024





Agenda

1. Welcome
2. Review/ Approve March Meeting Minutes
3. Public Comment
4. SWAC Discussion
5. Finalist Site Recommendation
6. Adjourn



Public Comments



Public Comments

3 minutes per person

Based on number of people wishing to comment

Written comments can also be sent to:

managethefuture@deschutescounty.gov



SWAC Discussion



Steps to SWAC recommendation



**March 2024 :
Site Evaluation Report
Review and Discussion**

Opportunity for the SWAC to discuss and provide input on the full Site Evaluation Report.



**April 2024 (Today!):
Finalist SWMF Site
Recommendation**

The SWAC will vote on recommendation to the BOCC for a preferred SWMF location.



**May-June 2024 :
BOCC hearings and
decision on site selection**

Following public input, the BOCC will vote on selection of a preferred site to acquire, permit, and development as the new County SWMF.



SWAC Role

Solicitation for committee members, issued February 2022:

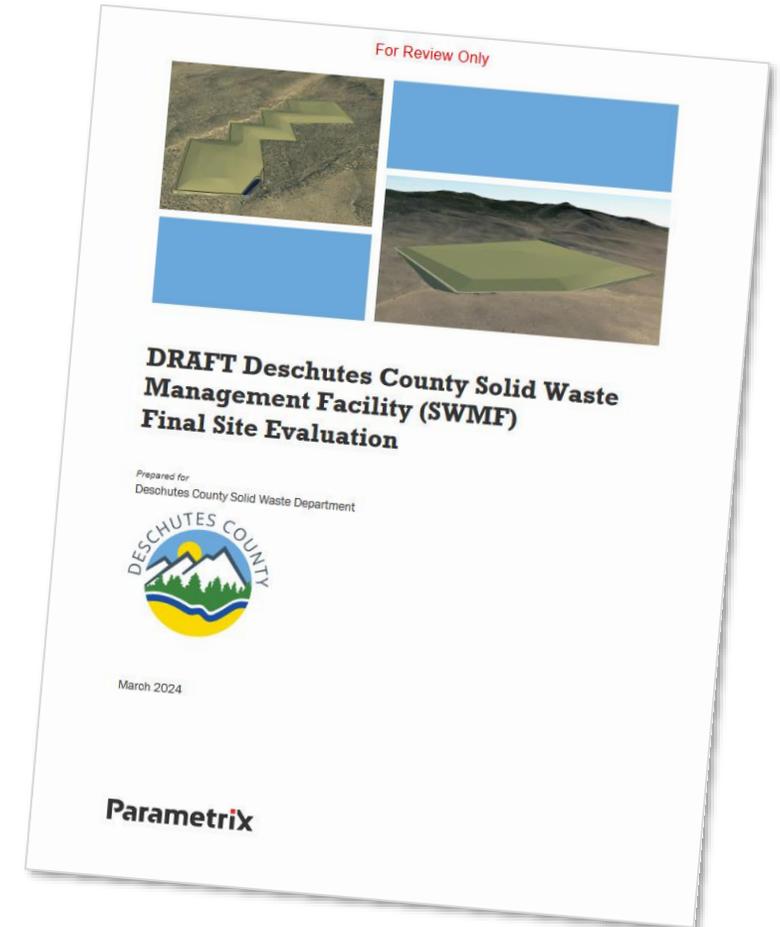
Deschutes County is seeking applicants for its Solid Waste Advisory Committee. Committee members will provide input on the screening and selection process for the location of a new landfill in Deschutes County.

The County has been working on the development of site screening criteria for this effort. The committee will participate in the evaluation of candidate sites and other aspects of landfill siting effort. Ultimately, the Committee will make a recommendation to the Board of County Commissioners on a candidate site.



Site Evaluation Report Update

- **Executive Summary Updates:** Added public involvement and concerns for each site, potential disturbances to recreational activities, and wildlife impact at the Roth East site, including potential endangered species listing for sage-grouse.
- **Transportation System:** Added information to transportation section in summary report about potential need for up to 5 water truck trips per day at the Roth East site during summer months.
- **Community Assessment:** Included discussion on the County's outreach to the public and regional Tribes, and a summary table of public comments by site.
- **Appendix Updates:** Updated appendices with new data such as wind speed data, wildfire risk, and Greenhouse Gas Emissions analysis. Also, mentioned risk of GSG ESA listing within landfill lifespan and implications to operations post-permitting.
- **Cost Estimates:** Prepared an upper-range cost estimate for Roth East, estimated 30-year bond debt service costs, and estimated 30-year tipping fees and increases to self-haul disposal costs and monthly residential franchise waste collection bills.





Cost Estimate Updates

Table 7. Landfill Site Cost Comparison

Item	Moon Pt	Roth East
Operating Period	2029-2129	2029-2142
Estimated Lifespan (years)	100	113
Land Acquisition Costs	\$15,870,000	\$5,500,000 to \$6,898,000
Initial Development Costs	\$35,266,900 to \$49,036,900	\$30,580,740 to \$37,215,609
Total Initial Costs (Land + Development)	\$51,136,900 to \$64,906,900	\$36,080,740 to \$44,113,609
Landfill Cell Development Costs	\$193,125,000 to \$347,094,000	\$142,905,000
Closure Costs	\$131,404,000	\$146,548,000
Operating Costs	\$1,259,744,358	\$1,720,346,129
Post-Closure Operations Costs	\$9,068,316	\$9,068,316
Total Lifespan Costs	\$1,643,978,574 to \$1,812,217,574	\$2,054,948,185 to \$2,062,981,054
Total Waste Disposal Projection (tons)	37,686,654	46,319,902
Avg. Cost per Ton over Lifespan	\$43 to \$48	\$44



Cost Estimate Updates

Table 7. Landfill Site Cost Comparison

Item	Moon Pkt	Roth East
Upfront Capital Costs Financed ¹	\$79,551,043 to \$101,969,346	\$68,419,316 to \$83,651,914
30-yr Operational Costs (2030–2059)	\$96,021,924 to \$123,081,891	\$328,800,270
30-yr Total Costs (2030–2059)	\$344,700,390 to \$386,439,390	\$397,219,586 to \$412,452,184
30-yr Waste Disposal Projection (tons)	7,462,195	7,462,195
30-yr Cost per Ton	\$59 to \$68	\$53 to \$55
30-yr Tipping Fee	\$106 to \$115	\$100 to \$102
Est. Monthly Residential Collection Bill ²	\$28.05 to \$28.83	\$27.56 to \$27.73
Monthly Res. Collection Bill \$ Increase ²	\$3.05 to \$3.83	\$2.56 to \$2.73
Monthly Res. Collection Bill % Increase ²	12% to 15%	10% to 11%
Est. Self-Haul Disposal Cost ³	\$21.18 to \$23.02	\$20.01 to \$20.42
Self-Haul Disposal Cost \$ Increase ³	\$7.18 to \$9.02	\$6.01 to \$6.42
Self-Haul Disposal Cost % Increase ³	51% to 64%	43% to 46%

1. Acquisition and development costs financed with 30-yr bond at a 4.75% annual interest rate.

2. Increase of \$0.85 for every \$10 increase above current \$70/ton tipping fee. Residential collection bill assumed at \$25/month.

3. Based on current cost of \$14 for up to 0-400 lbs of household/construction waste disposal with load covered & secured.



Preliminary SWMF Development Schedule

Calendar Year:	2024		2025				2026				2027				2028				FY 2029				2030				
	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2026 Q1	2026 Q2	2026 Q3	2026 Q4	2027 Q1	2027 Q2	2027 Q3	2027 Q4	2028 Q1	2028 Q2	2028 Q3	2028 Q4	2029 Q1	2029 Q2	2029 Q3	2029 Q4	2030 Q1	2030 Q2	2030 Q3	2030 Q4	
Project Task:																											
Property Boundary Survey	Yellow																										
Property Acquisition ¹	Grey																										
Land Use Permitting ^{2,3}	Green																										
Environmental/Natural Resources Permitting ^{4,5}	Blue																										
Geotechnical Investigations			Yellow	Yellow	Yellow	Yellow																					
Formal Archaeological Survey			Yellow	Yellow	Yellow	Yellow																					
Site Characterization Study			Yellow																								
DEQ Solid Waste Permit										Brown	Brown	Brown	Brown	Brown													
Design/Engineering Services										Yellow	Yellow	Yellow	Yellow	Yellow													
Construction ⁶														Red													
Initiation of Operations																								Red	Red	Red	
Public Involvement	Yellow																										
Notes:																											

1. For both sites an option to purchase is anticipated upfront, with full property acquisition later, when permits can be obtained and before construction begins.
2. For Moon Pit, Land Use Permitting involves an SM Zone text amendment to allow landfilling as a reclamation activity, followed by a conditional use permit.
3. For Roth East, Land Use Permitting this involves conditional use permitting and Farm Impacts Test, subject to appeals.
4. For Moon Pit, Env/NR Permitting timeline assumes a NEPA process requiring a EA or BA to access the landfill site through BLM land. This also includes wildlife mitigation.
5. For Roth East, Env/NR Permitting timeline assumes a lengthy process for wildlife mitigation efforts, largely related to sage grouse.
6. Moon pit has potential to begin excavation (as aggregate resource mining) before permits issued are approved for landfill development



SWAC Questions

Will all the public comments and meeting notes also be added as appendices?

Is the SWAC also approving the Appendices?

Did BLM confirm that obtaining a road right-of-way to Moon Pit will be a lengthy process?

Would Deschutes County voters be asked to approve a bond?

Should various population growth assumptions be explored and modeled for landfill waste projections?

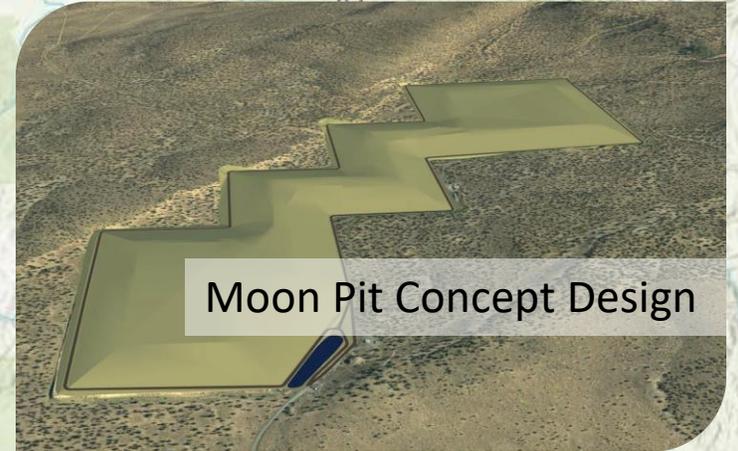
At Moon Pit, who would own the aggregate rock being mined?

Is water leasing at Moon Pit secure and included in cost estimates?



Finalist Sites

Moon Pit and Roth East



Moon Pit Concept Design



Roth East Concept Design

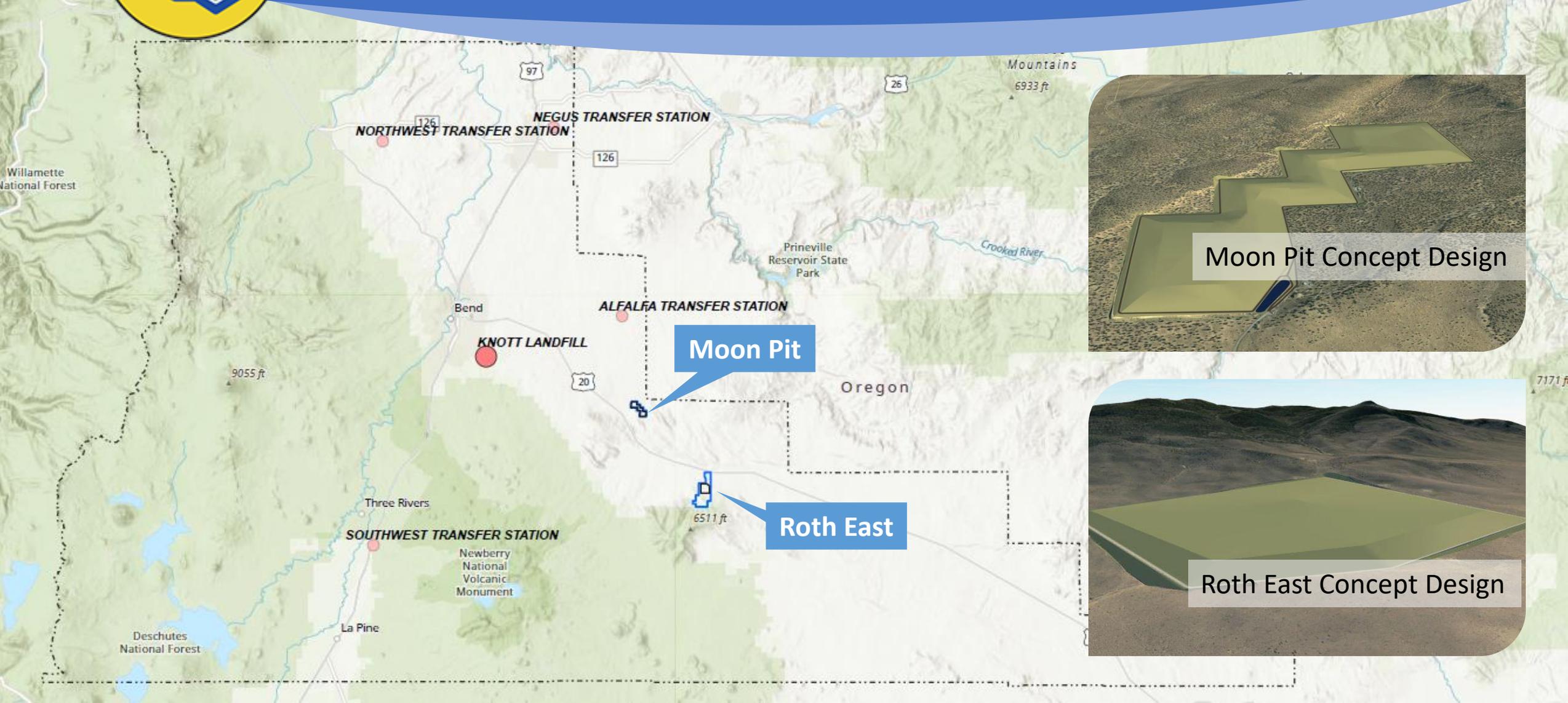


Finalist Site Recommendation



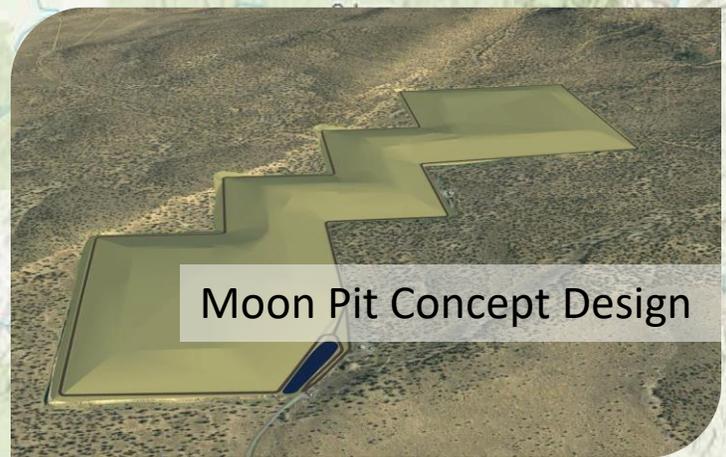
Finalist Sites

Moon Pit and Roth East

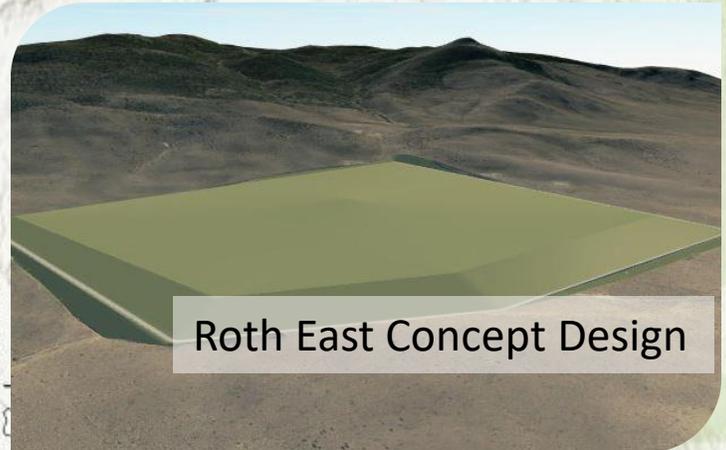


Moon Pit

Roth East



Moon Pit Concept Design



Roth East Concept Design



What happens next...

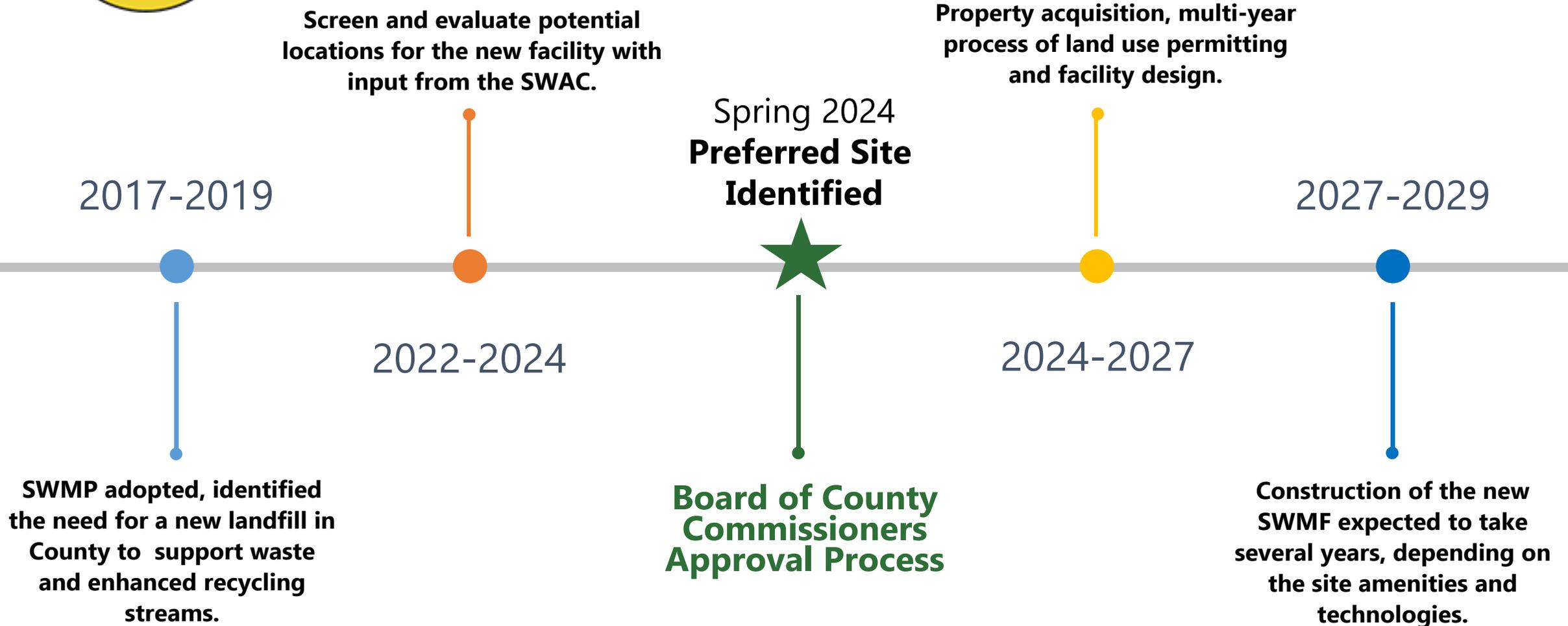
- Finalize Site Evaluation Report (including SWAC recommendation)
- Ongoing outreach to interested parties (website, email updates, briefings, etc)
- May-June 2024 (tentative): Board of County Commissioners hearings and decision on site selection

Ways to stay up to date:

- Visit: deschutes.org/managethefuture
- Email: managethefuture@deschutescounty.gov



Roadmap to opening in 2029





Adjourn

