



Recovery

Cedar Hills Regional Landfill
Community Meeting • April 21, 2021 • 6:30-8:30 p.m.

Agenda

- 1. Welcome, technology orientation, introductions (Kathy Hashagen)
- 2. Meeting goals, regional system, landfill overview (Pat McLaughlin)
- 3. Bio Energy Washington update (Kevin Singer)
- 4. Q & A (AII)
- 5. Landfill neighbor survey (Annie Kolb-Nelson)
- 6. Construction & environmental monitoring (Laura Belt)
- 7. Landfill operations (Scott Barden)
- 8. Site development plan update (Pat McLaughlin)
- 9. Q & A (All)



Technology Orientation

- We are using Zoom Webinar format
- Only presenters will have video & audio enabled
- As attendees, your video and audio is disabled
- Questions can be submitted via the "Q&A" button at the bottom of your screen



Zoom Webinar Ground Rules

- Consider waiting until the end of the presentation to pose your question
- Use polite language
- Please keep questions as concise as possible
- For the sake of time, your question may be grouped with other, similar questions and responded to as a group



Presenters





Kathy Hashagen, Facilitator Kev Pat McLaughlin, SWD Director Annie Kolb-Nelson, Communications Supv. Laura Belt, Facilities, Engineering, Science Mgr. Scott Barden, Interim Operations Mgr.

Kevin Singer, Plant Mgr.



Meeting Goals

Pat McLaughlin, Solid Waste Division Director

- Inform neighbors and other stakeholders about activities at the landfill
- Listen to questions and concerns and be responsive
- Notes will be posted on website

Mission

We bring the best people together to deliver value to our customers and stakeholders and continuously improve waste prevention, resource recovery, and waste disposal.

King County's Regional Solid Waste System

Serving 1.4 million people

- King County regional service provider
- 37 cities all but Seattle & Milton
- 6 urban transfer stations
- 2 rural transfer stations
- 2 rural drop boxes
- 9 closed landfills
- 1 open landfill

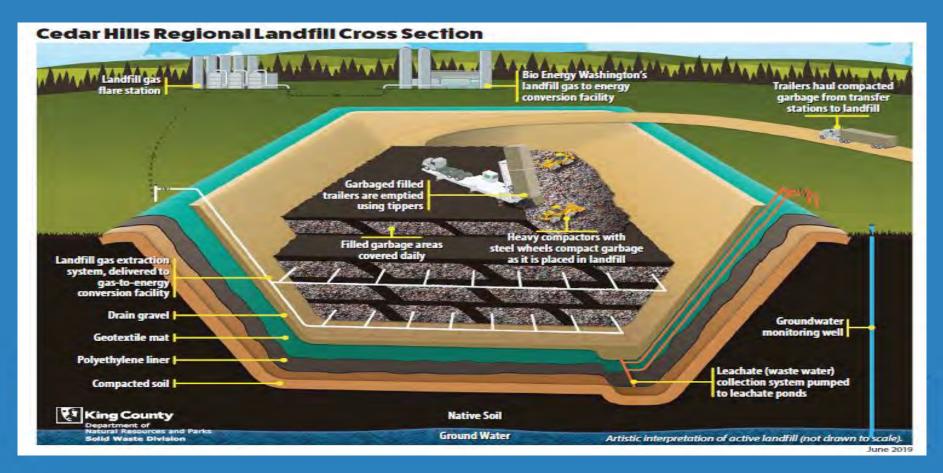


Cedar Hills Regional Landfill



- In operation since 1965
- 920 acres (417 acres of natural space, 472 acres of closed landfill, 31 acres of active landfill)
- Average daily tons: 2,407
- Tons disposed in 2020: 871,500

Environmental management







Bio Energy Washington – Overview

- Convert landfill gas to pipeline renewable natural gas through a series of compression and separation processes
- Established in 2008 in a partnership with King County Solid Waste and Puget Sound Energy
- Recover nearly 80% of methane from landfill gas for beneficial use – about 75% goes to the pipeline
- Three core values: Health and Safety, Environmental Excellence and Continuous Improvement



Bio Energy Washington – Operations

- Hotline: 425-392-3918 for any concerns
- No injuries or environmental exceedances in past 12 months.
- 96% Uptime in 2021
- Covid-19 has had minimal impact on our operation
- New improvements made in our Generator
 House catalysts and Sulfur Media change-outs



Bio Energy Washington – Future Outlook

- No significant modifications or changes planned that would adversely affect noise, odor or the community
- Continue routine maintenance work, inspections, and media replacements to ensure reliable operation



Bio Energy Washington

QUESTIONS?

425-392-3918

www.bioenergy-wa.com

Cedar Hills Regional Landfill Near Neighbor Survey

Annie Kolb-Nelson, Communications & Records Supervisor

- Conducted Feb 2020
- Mailed to 3,700 area neighbors
- 700 responses received



Survey Focus

- The survey focused on these key areas:
 - How do people want to be kept informed, and to communicate with us?
 - How does living near the landfill affect them, and what would make it better?
 - How can we improve communication and build trust with neighbors?

Key Findings – Communication

- Over 90% of people want regular information on the landfill.
- They're most interested in:
 - Future plans for operation and post-closure (36%)
 - Capacity (16%)
 - Environmental protection (14%)
- Most would like quarterly or twice-yearly communication preferably by email or postal mail.
- Public meetings have value.



Key Findings - Impacts

- Most commonly cited impacts are:
 - Odor (38%)
 - Traffic (25%)
 - Equipment noise/vibration (15%)
 - Litter (10%)

Key Findings – How Can We Make Things Better?

- What would improve operations?
 - Better odor control (40%)
 - Less food waste, more recycling (14%)
 - Better pest management (11%)
 - Litter control (10%)

Recommendations

- More holistic communication with community members
 - Quarterly newsletter via mail/email
 - Twice-yearly open house with tours
 - Designated community relations contact

Construction & Environmental Monitoring

Laura Belt, Facilities, Engineering & Science Manager

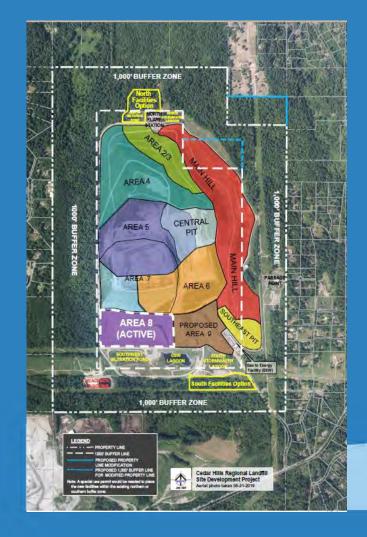
- Areas 7 & 8 construction
- Groundwater quality
- Perched zone
- Vegetation of western buffer
- Leachate conveyance pipe maintenance



Reporting a Landfill Concern

- Call the Solid Waste Division at 206-477-4466. Answered 24/7
- If you believe a situation is an emergency, call 911





Landfill Areas 7 & 8



Final cover will be installed on Area 7 this summer

Groundwater Quality and Perched Zone

- 48 groundwater wells throughout the landfill
- Water level & water quality checked
- Perched zone small area impacted by past landfilling.
 Continuing to work with Dept. of Ecology to implement recommendations, including redevelopment of groundwater wells





Department of Natural Resources and Parks Solid Waste Division

Western buffer vegetation



Request for more evergreen trees in west buffer

Arborist recommendations require large clear cutting to allow light/space for new trees

Leachate conveyance pipe maintenance



Last Fall, crews removed a blockage from the pipeline to restore full flow.

This summer, construction work on Cedar Grove Rd to replace the temporary road repairs from last Fall

Operational Updates Scott Barden, Interim Operations Mgr.

- Innovations in alternative daily cover material
- Leachate lagoon aerators electrical upgrade
- Odor neutralizing equipment
- Vegetation control work



Landfill Daily Cover - Soil & Tarps

Control vectors, fires, odors, blowing litter, and scavenging



Alternative Daily Cover Innovations

We evaluate new technologies to help control odors, litter, and vectors, and save landfill space





Leachate Lagoon Aerators Electrical Upgrade

Aerators introduce oxygen which helps reduce odors





Water that seeps through garbage (leachate) is piped to the leachate lagoons, aerated, then piped to a <u>wastewater</u> facility



Odor Neutralizing Equipment



- Byers Scientific mobile unit
- Treats up to 850 lineal feet
- Effective indoors and outdoors
- Eliminates odor molecules, not mask odors

Natural Resources and Parks
Solid Waste Division

Annual vegetation control



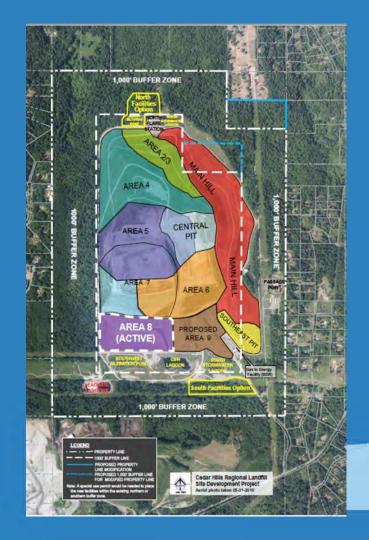




Planning for the Future of Solid Waste Services



- 2019 Comprehensive Plan presents strategies for managing King County's solid waste over next 20 years.
- Approved by the King County Council, 24 of King County's 37 partnering cities, and Dept. of Ecology.
- Recommendation: Extend the life of Cedar Hills Regional Landfill by optimizing development of the site for landfilling.



Cedar Hills Regional Landfill Site Development Plan and Facilities Relocation

- Draft Environmental Impact
 Statement (EIS) issued Sept 2020
- Received approx. 70 comments
- South buffer identified as the preferred facilities relocation option
- Final EIS to be issued in summer 2021

Site Development Plan

Funds dedicated to study these topics as a result of comments received on the Draft EIS:

- Air and Odor
- Noise and vibration
- Groundwater
- Surface water & stormwater





Questions?

206-477-4466 www.kingcounty.gov/solid-waste

