

FALL 2022

King County  
Solid Waste Division

# CEDAR HILLS REGIONAL LANDFILL

# COMMUNITY MEETING



King County

Department of Natural Resources and Parks  
Solid Waste Division

# Meet Our Presenters



**Kathy Hashagen**

**Facilitator**

King County Solid Waste



**Pat McLaughlin**

**Division Director**

King County Solid Waste



**Kevin Singer**

**Plant Manager**

Bio Energy Washington



**Laura Belt**

**Engineer**

King County Solid Waste



**Theresa Thurlow**

**Engineering Services Manager**

King County Solid Waste



**Scott Barden**

**Assistant Operations Manager**

King County Solid Waste

# Interacting with Presenters

During presentations, video and audio sharing is disabled for viewers

Video and audio will be enabled during the comment period

Questions can be submitted throughout the meeting with the Q&A button





## Meeting Goals

Inform you about activities taking place at the landfill and changes that are planned or being evaluated.

Listen and respond to your questions or concerns.



## Our 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.



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# Tonight's Agenda

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- 1 Welcome & introductions
- 2 Bio Energy Washington updates
- 3 Construction & environmental monitoring
- 4 Property acquisitions
- 5 Landfill operations
- 6 Q&A
- 7 Comment period



## Cedar Hills Renewable Natural Gas Plant – Community Update, September 2022



# 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 around 80% of methane from landfill gas for beneficial use – about 75% goes to the distribution pipeline owned by PSE and Williams
- Three core values: Health and Safety, Environmental Excellence and Continuous Improvement

# Bio Energy Washington – Operations

- Hotline: 425-392-3918 for any concerns
- No recordable injuries in past 12 months
- No environmental exceedances in past 12 months
- Planned annual emissions testing on GenHouse and Thermal Oxidizer in Nov. 2022
- 96% Uptime in 2022
- Average daily production of 3,595 MMBtu/day
- Sustained improvements in our Generator House catalysts, Sulfur Media change-outs, and electrical reliability



## 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

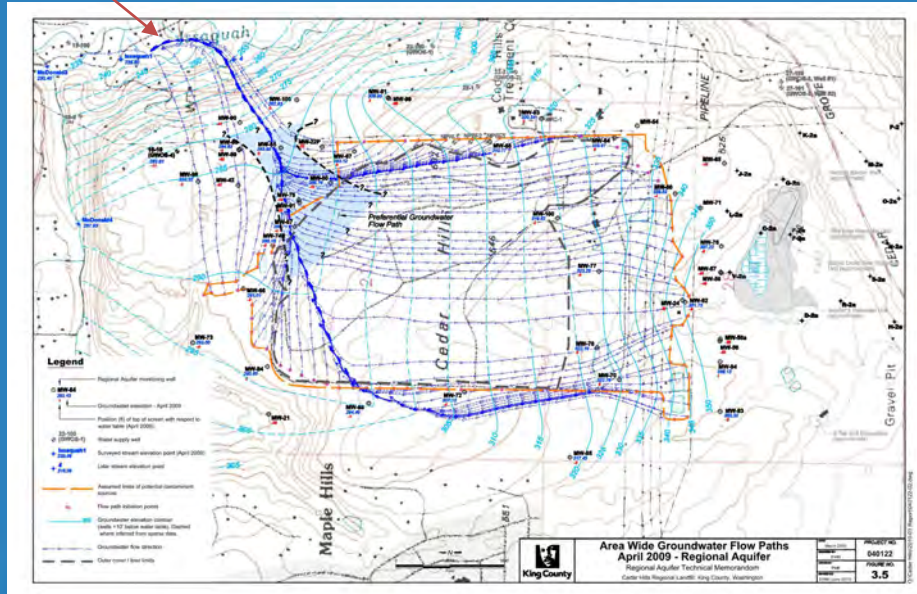


# Construction & Environmental Monitoring

Laura Belt

King County Solid Waste Engineer

# Ongoing Groundwater Monitoring



Water level and quality tested quarterly

Water flows under site and exits to the northeast and wells monitored in northeast meet drinking water standards

Continuing work with Ecology to implement recommendations on perched zone (area impacted by past landfiling)

48 groundwater monitoring wells throughout the site



# Landfill Gas System Improvements

Working on evaluating remote control wells so can be adjusted more rapidly based on conditions, putting together pilot program

Continual evaluation of landfill gas flow and quality

Installation of vertical wells - 20 more next spring

Pilot testing new valves

Emissions monitoring and estimation





# Ongoing and upcoming projects

- + Completion of the Area 7 closure construction
- + Electrical upgrades at the North Flare Station
- + Leachate lagoon upgrades
- + Additional extraction wells in several areas of the landfill
- + Maintenance projects on landfill gas and cover
- + Installation of an additional flare for low quality landfill gas
- + Planning for buffer reforestation underway



# Cedar Hills Property Acquisitions

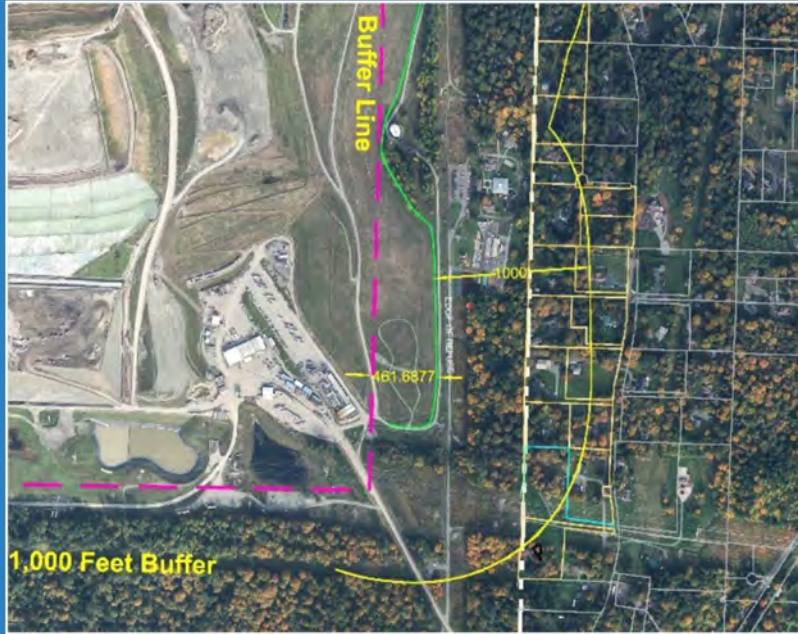
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Theresa Thurlow  
Engineering Services Manager



## Historical Context

On Sept. 12, 1960, a special permit was approved that required a 1,000 foot natural buffer around the landfill.



## 1967

Landfilling activity encroached on a portion of the eastern buffer strip.

## 2000

A legal settlement was reached with landfill neighbors required that no refuse or soil be placed within 1,000 feet of property line.

## Today

Aerial footage currently shows the point of greatest encroachment at approx. 462 feet. King County Solid Waste continues to look for opportunities to purchase properties to reestablish the 1,000 buffer eastward.

# What happens after acquisition?

## Assess the infrastructure

Identify hazards asbestos, lead paint, etc

Identify possible reuse or repurposing of structures & building materials

## Unneeded infrastructure dismantled by contract

Dispose of hazardous waste following regulations

Dismantle interior finishes that can be resold cabinets, doors, etc

Dispose of remaining waste



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# After deconstruction or relocation

## Transitional process

Staff check on structures weekly or bi-weekly from acquisition until removed

Landscaping is maintained until the parcel is planted with native vegetation and returned to a natural state

- \* Staff is currently remediating lawn overgrowth on a recently purchased property



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# HISTORICAL & CURRENT ACQUISITIONS

Maple Valley Lots within 1,000 foot buffer

PARCEL	ADDRESS	OWNER	50.59 acres
222306-9105	1509 229th Ave SE	King County Solid Waste	1.25 acres
222306-9125	15225 229th Ave SE	King County Solid Waste	1.25 acres
222306-9126	22808 SE 154th St	King County Solid Waste	1.26 acres
222306-9135	15323 229th Ave SE	King County Solid Waste	1.25 acres
22306-9027	None available	King County Solid Waste	2.51 acres
222306-9080	15607 230th Ave SE	Private	2.25 acres
222306-9145	22908 SE 157th St	Private	2.70 acres
222306-9146	22909 SE 157th St	Private	2.29 acres
222306-9136	None available	Private	0.90 acre
222306-9131	22906 SE 159th St	Private	1.00 acre
222306-9132	22905 SE 159th St	Private	2.94 acres
222306-9063	22917 SE 159th St	Private	1.61 acres
222306-9135	22917 SE 159th St	Private	1.61 acres
272306-9129	16033 230th Ave SE	Private	2.49 acres
272306-9093	16015 230th Ave SE	Private	2.31 acres
272306-9132	16039 230th Ave SE	Private	2.58 acres
272306-9092	16109 230th Ave SE	Private	2.21 acres
272306-9138	None available	King County Solid Waste	2.44 acres
272306-9099	16215 230th Ave SE	Private	2.45 acres
272306-9097	16307 230th Ave SE	Private	2.00 acres
272306-9098	16321 230th Ave SE	Private	1.79 acres
272306-9140	16601 230th Ave SE	King County Solid Waste	3.57 acres
272306-9141	16423 230th Ave SE	King County Solid Waste	2.92 acres
272306-9127	16605 230th Ave SE	Private	2.74 acres

# Landfill Operations Update

Scott Barden  
Assistant Operations Manager





# Byers Intelligent Odor Control System

Has been operating at CHRL for 6 months. County has now officially purchased the system.

Continuing to learn more about the system and move it to find greatest area of benefit.

Calls attributed to landfill odors have declined.



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# Gabion Baskets in Area 8

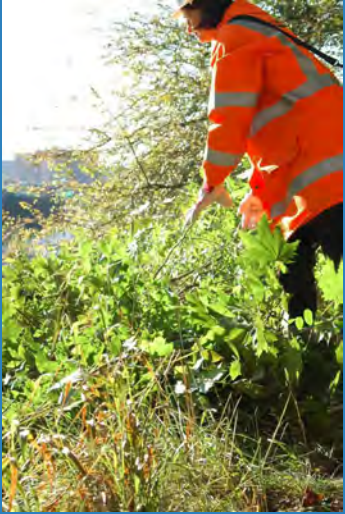
Project is part of the County's continuous improvement effort

Goal is to increased leachate collection

Will connect to vertical well and prevent clogs in the line



# Other Operations Updates



## Annual vegetation control

Currently behind schedule due to staffing shortages

## Landfill tours resuming

After a pause for COVID, landfill tours will resume. Fall tour scheduled for October 8 at 9 AM



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**Panelists will do their best to address all questions submitted during the meeting.**

If time does not allow us to answer all questions, answers will be prepared and posted on the King County website.



# Comment period

Use the hand raise function to request a comment period

Staff will call on you and unmute your microphone when it is your turn

Each participant may comment once, up to three minutes





# Thank you for joining us!



## Contacts



Landfill concerns 24/7 call line  
**206-477-4466**



Emergency  
**911**