



Department of Environmental Quality

Pre-Regulatory Landfill Program

Beaufort Refuse Dump

PRLF ID# NONCD0000200

Brownfields ID# 14011-10-016



What is the Pre-Regulatory Landfill Program?

- Landfills operating prior to regulations
 - 688 sites across NC
- No landfill construction or disposal standards
- Collaboration between DEQ employees and environmental consultants
- Funded by solid waste disposal tax – Approximately \$12 million per year
 - Assessment
 - Remedial actions
- PRLF funds eligible assessment and mitigation activities, including methane detectors, at no cost to property owners or tenants.

Landfill Information



- Located between Freedom Park Road and Great Egret Way
- Town of Beaufort reportedly operated landfill from 1953 to 1976
- Landfill property is privately owned and is subject to a DEQ Brownfields Agreement
- DEQ completed limited assessment
 - Reports available on public webpage – contact DEQ for assistance accessing reports or use the link on the handout

Department of Environmental Quality



Recent Site Activities

- Detected elevated levels of methane and hydrogen sulfide in soil-gas near houses on Sea Hawk St
- Requested access to properties on Sea Hawk St and Great Egret Way
 - Six owners granted full access
- Collected more soil-gas samples to verify previous results
- Tested inside one home for methane and hydrogen sulfide – no detections
 - Installed methane alarms
- Methane or hydrogen sulfide has not been detected inside homes
- Note: Methane and hydrogen sulfide are naturally occurring gases in coastal soils

Recent Site Activities

- Monday August 10th - DEQ and Hart & Hickman canvassed houses on Sea Hawk Street and Great Egret Way with a notification letter and access form for owners to sign
- Letters and access forms were left at doors with no response
 - A copy was sent to the listed owners

Next Steps

- Continue to request access to houses on Sea Hawk St and Great Egret Way
 - Offer to install methane alarms
 - Offer to screen indoor air for combustible gasses
 - Offer to collect soil-gas samples near the house
 - If needed, offer to install a mitigation system
- Goal: Install methane alarms in homes until samples can be collected to determine if a house may be at risk and mitigate if needed
- Collect more soil-gas samples surrounding the landfill
 - Update owners with results and adjust assessment area as needed

Methane Alarms



- Alarms when methane is detected at 10% of hazardous levels
- Instructs you to evacuate and call 911
- 10-year battery life
- Available at home improvement stores
- Alarms are being offered to each owner and does not require signed access

Soil-Gas Probe Examples

Soil-Gas Probe

- Dug by hand in yard



Sub-Slab Probe

- Drilled into concrete slab



Mitigation System Examples

- A fan and pipes pull gas from the ground that vents to the air
 - Like a radon system
- Testing is done to decide which system is appropriate:
 - Indoor system
 - Requires drilling a 4-inch hole and smaller test points in concrete slab, likely in garage
 - Outdoor system
 - Requires yard disturbance and below ground pipes
- Each system has a running fan and piping to an exhaust point
- Minimizing disturbance and matching aesthetics is a priority

Mitigation System Examples



Summary

- Introduce the PRLF Program and provide contact information for any questions
- Notify owners of methane and hydrogen sulfide detections being tested further
- Notify owners of previous and upcoming work in the area
- Offer methane alarms as a protective measure
- Request access to collect samples and check if there are potential risks
 - Provide an opportunity for owners to have their home tested
- Offer a mitigation system to owners if testing shows a potential risk

Thank you

- PRLF Unit Project Manager
 - Sean Gallagher – (984) 239-0631; sean.gallagher@deq.nc.gov
- H&H Project Manager
 - Trinh DeSa – (704) 887-4631; tdesa@harthickman.com
- Additional contacts – see handout