



# Chesapeake Energy Center Waste Hearing Information Session

July 11, 2016

Solid Waste Permit 440

DRAFT

# Permit Background

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- Stopped coal combustion operations Dec 2014
- Landfill ceased accepting Coal Combustion Residuals (CCR) Oct 2015
- DEQ is addressing safe facility closure with two permit actions
  - **Solid Waste Permit Modification**
    - Permanent closure of the landfill and bottom ash pond
    - Perimeter leachate collection system
  - **Virginia Pollution Discharge Elimination System (VPDES) Permit Modification**
    - Discharge of treated water from the ash pond, stormwater leachate, and closure of the bottom ash pond
    - Ensures discharges comply with established water quality standards

# Regulatory Framework

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## **2015 EPA Final Rule on the Disposal of Coal Combustion Residuals (CCR)**

- Provides operational and closure standards for new and existing landfills /surface impoundments
- Provides closure requirements for inactive impoundments
- Inactive impoundments are those that have not accepted CCR after October 19, 2015 and contain free liquids and are on the property of the generator
- Rule provides station owner with two closure options – capping in place or removal

## **Virginia Solid Waste Management Regulations**

- Virginia Waste Management Board adopted the EPA Final Rule
- Provides additional technical requirements for closure and post-closure of surface impoundments
- Provides permitting process and oversight

## **State Water Control Law**

- Provides permitting process and oversight to ensure water quality standards are met



# Waste Permit - Proposed

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- Final cover design for the landfill and bottom ash pond
- A perimeter collection pipe will be installed to capture leachate from the landfill
  - Discharge to stormwater/leachate collection basin A (meets VPDES requirements)
- During closure construction, basin B will be retrofitted with a geomembrane liner

# Waste Permit - Proposed

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- Post-closure care includes:
  - Maintenance of the final cover system
  - Management of leachate collected in the perimeter collection pipe
  - Minimum 30 year care/maintenance after completion of closure activities
  - Conducting all required groundwater, corrective action, and surface water monitoring

# Waste Permit

## Groundwater - Proposed

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- Evaluate existing groundwater monitoring system to encompass the landfill and the bottom ash pond
  - Requires submission and approval of a revised groundwater monitoring plan
- Include all detection and assessment constituents established by the final CCR rule for semi-annual sampling
- Requires submission and approval of a revised corrective action plan

# Waste Permit

## Surface Water - Proposed

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- Expansion of current surface water monitoring requirement for CCR parameters
- Results compared to applicable water quality standards or groundwater protection standards
  - Detections above the standard require a surface water investigation to identify and address the exceedance
- Additional surface water parameters may be added based upon groundwater monitoring data

# Public Participation – How to Comment

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- Solid Waste Public Comment Period
  - **June 8 – July 26, 2016**
  - Submit comments in writing to:  
[ChesapeakeEnergyCenterWastePermit@deq.virginia.gov](mailto:ChesapeakeEnergyCenterWastePermit@deq.virginia.gov)
  - **Comments must include:**
    - Name
    - Address
- Tonight's Hearing will begin at 7 p.m.
- DEQ Staff available to answer questions until 6:45