

#### South Carolina Department of Health and Environmental Control

# Plantation Pipe Line Lewis Drive Release Belton, SC

January 31, 2017

Mihir Mehta Underground Storage Tank Management Division Director Bureau of Land and Waste Management

# **Today's Presentation**

**General information** 

Actions that have been completed

Future cleanup plans and the path forward

### **DHEC's Role in the Cleanup Process**

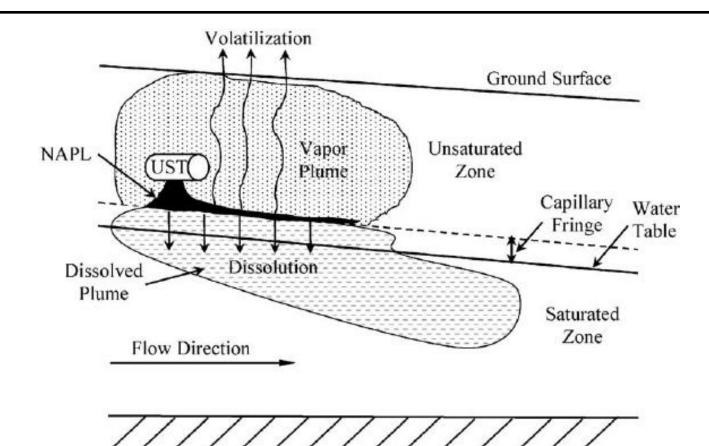
Review data to continue to ensure the extent of the petroleum is defined.

Review the Corrective Action Plan, proposed by Plantation Pipe Line, to make sure the proposed cleanup is appropriate.

Continued review and oversight to ensure cleanup is moving toward goals that are protective of human health and the environment.

#### **Gasoline & Diesel Fuel (Petroleum)**

- -made from crude oil
- -is a light non-aqueous phase liquid (LNAPL) petroleum product
- -it resists dissolving into water
- -it evaporates easily
- -is less dense than water, so it likes to remain near the top of the water table but it can mix with water

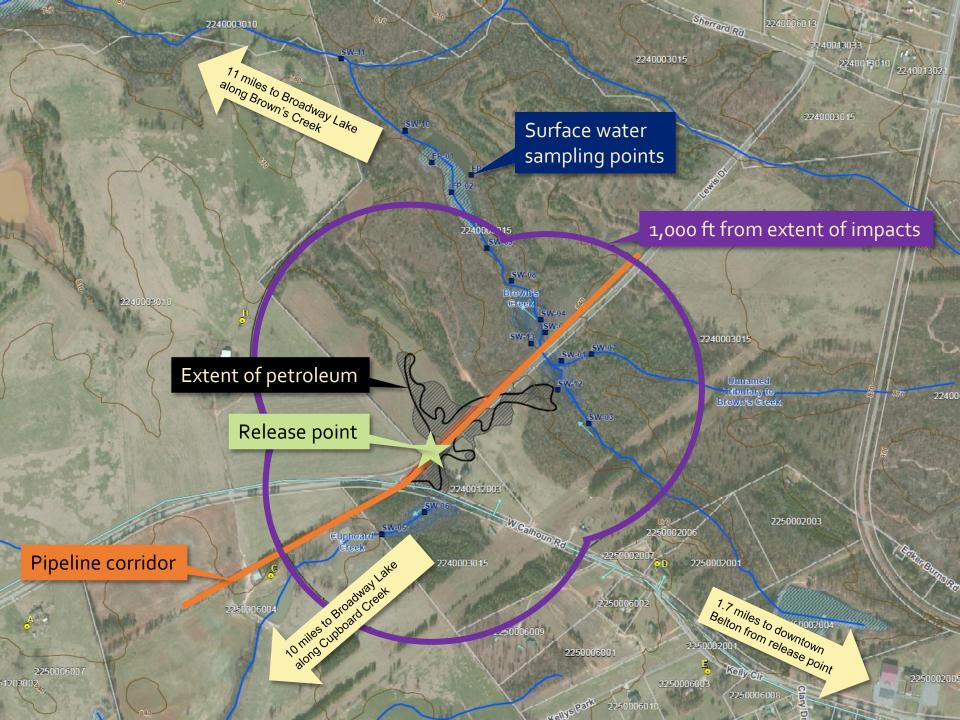


## **Background Information**

Plantation Pipe Line estimates 369,600 gallons of gasoline and diesel (mostly gasoline) leaked from the pipeline.

The pipe Line was repaired the week of December 19, 2014 and Lewis Drive was reopened to traffic.





#### **Initial Actions**



Recover as much petroleum as possible.

- 2,800 tons of contaminated soil was removed
- 98 temporary wells were installed to locate free product and determine the extent of groundwater contamination.



- 20 recovery sumps installed.
- 15 recovery wells installed.
- Recovery trenches up-gradient of Brown's Creek and Cupboard Creek installed.
- Hard impermeable booms and soft absorbent booms in Brown's Creek installed.

### Release Status

213,951 gallons of petroleum recovered using vacuum extraction as of December 2016.

Petroleum measurement and recovery of petroleum is carried out weekly or biweekly.

Based upon the recent data the extent of petroleum is defined.



### **Project Status**

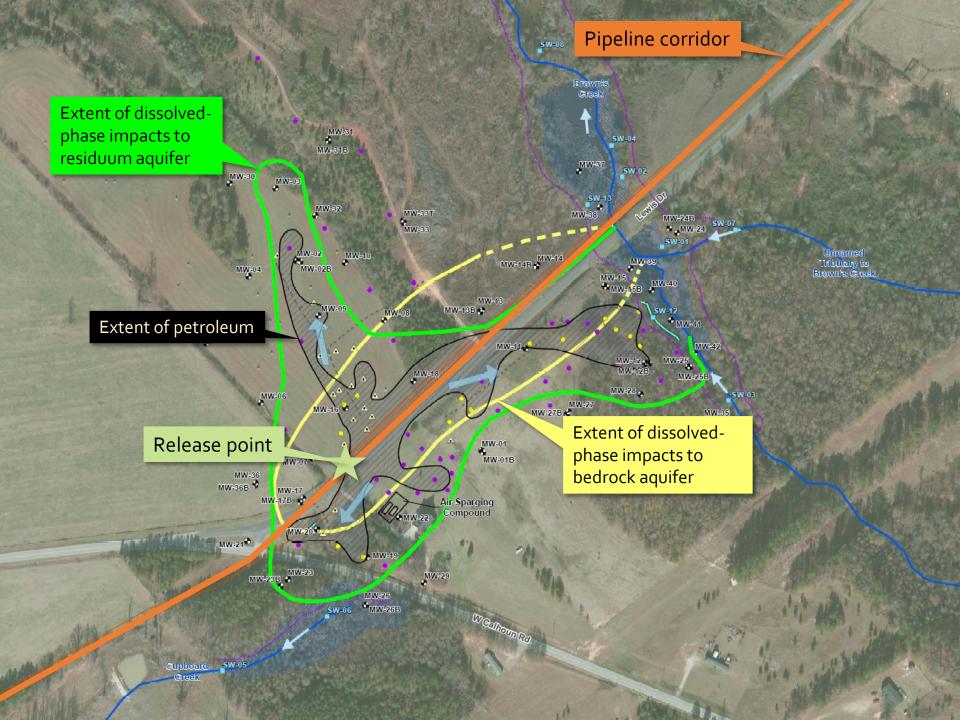
SC DHEC's extended public comment period for Corrective Action Plan (CAP) ended on December 6, 2016.

The CAP has been reviewed and comments have been provided to Plantation Pipe Line.

Installation of remediation system is underway.



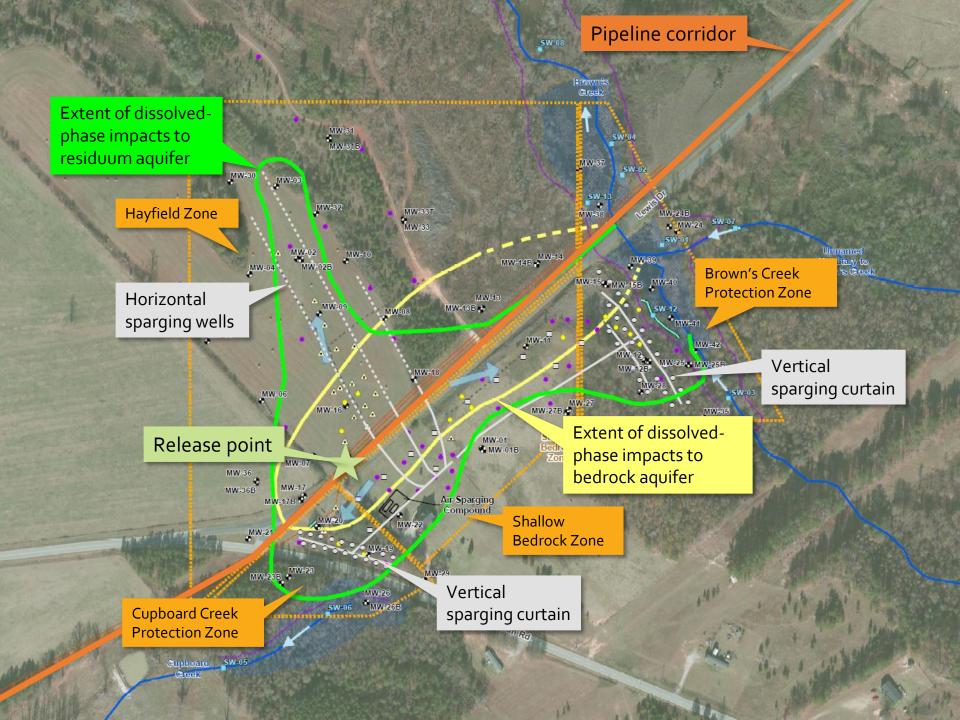




### What is Biosparging

Air is pumped through slotted piping that is placed under the ground. The air creates an environment that supports biological activity in breaking down the petroleum in the nearby groundwater.





### SC DHEC's Path Forward





Continued oversight of petroleum removal, monitoring, and operation of the groundwater cleanup system.

Ongoing communication with Plantation Pipe Line.

Periodic meetings with stakeholders to provide updates on the cleanup.

### Department of Transportation (DOT)

 Federal DOT – Office of Pipeline and Hazardous Materials Safety Administration (PHMSA)

Arthur Buff, Community Liaison Manager

Atlanta Office Number is:

404-837-1147

#### **EC** South Carolina Department of Health and Environmental Control

# **CONTACT US**

Bureau of Land and Waste Management 2600 Bull Street Columbia, SC 29201

> Mihir Mehta, P.E., Director UST Management Division (803) 898-0623 mehtam@dhec.sc.gov

#### **Stay Connected**









