# Pipeline Safety in Agricultural Areas

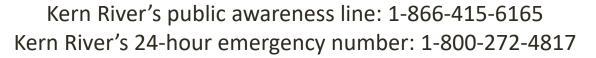




# It takes years to make a farm successful.

It takes just one call to keep it safe.







### Agricultural Excavations

- Why focus on agricultural excavations?
  - To keep workers, family, friends and the community safe
- Calling in a locate request protects you from injuries and prevents
  - damages to utilities
  - service interruptions to your community
  - potential fines
  - repair costs





#### Pipelines and Utilities

Below are typical pipeline markers





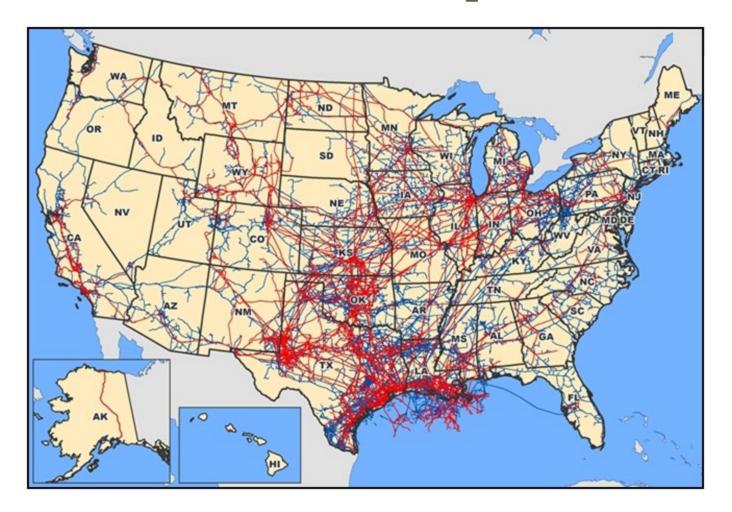
#### Pipeline Incident Prevention

 Many pipeline companies conduct aerial patrols to help spot excavations taking place near a pipeline





# Where Are The Pipelines?





### Where Are The Pipelines?

- The map on the previous slide shows only highpressure pipelines
- Always looks for indication of underground facilities, such as
  - Pipeline markers
  - Utility markers
  - Electric transformers
  - Aboveground gas facilities
  - Utility pedestals



#### Partnerships and Prevention

- Partnerships and communication can prevent minor damage or tragedy
- Even damaging the protective coating on a pipeline can cause serious incidents at a later date by concentrating corrosion in the area of the damaged coating

Puncturing a pipeline can have immediate

catastrophic results

















Well drilling

Know what's **below. Call** before you dig.



Creek stabilization

Know what's **below. Call** before you dig.



Trash pit





Removing tree lines and fence lines to gain additional ground



# Possible Results of Failing to Call 811

- Any of the previous agricultural excavation examples could result in devastation if a one-call notification is not made
- Call the pipeline company if you suspect even minor damage
- Allow for inspection and repairs, if needed
- Even a small disturbance to pipeline integrity can cause future concerns
- Don't take the chance of damaging important facilities your community relies on every day, including power lines, fiber optic lines, telephone lines and water lines





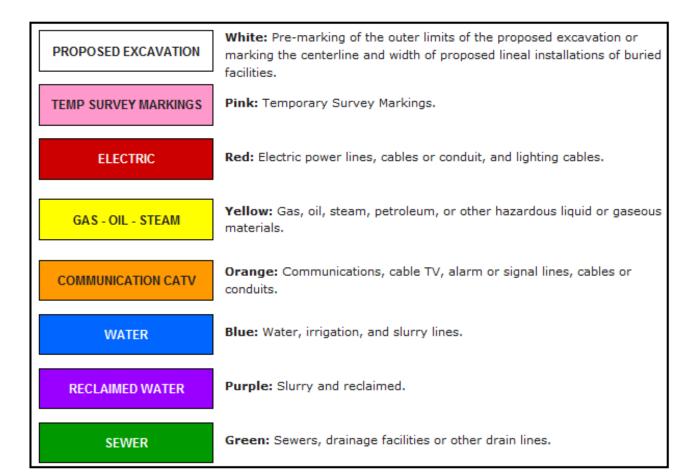
#### Call 811 – It's the Law!

- 1. Call 811 at least two business days before every digging project it's easy, free and required by law
  - Calling protects you from injuries and prevents damages to utilities, service interruptions to your community, and potential fines and repair costs
- 2. Wait for each utility to mark their underground facilities
- 3. Respect and protect the facility markings
  - Facility markings are approximate. Stay in close contact with the facility owner, as they may require their company personnel to be on-site during excavation work.
- 4. Always dig with care
  - A Kern River representative must be on-site during any excavation on our right of way, and hand-digging is required within 24 inches of the pipeline



#### Uniform Color Code

- After your request is received by the one-call agency, it will notify the utility company to mark their facilities
- Utility companies will mark their facilities with flags, paint or other markings, which are color coded for their specific utility category





# Stay Safe

- 1. Natural gas transmission pipeline incidents tend to be low-frequency, high-consequence events
- 2. Do not assume that your contractor made the one-call request
- 3. Do not assume that the area is clear of pipelines and utilities based on previous locates or memory
- 4. Do not assume the depth of the pipeline, as erosion can change the depth
- 5. Do not assume that the pipeline runs in a straight line between markers



# Stay Safe

- 5. Do not assume that the pipeline marker is directly over the top of a pipeline
- Do not assume that hired hands, new tenants or temporary workforce know about the pipeline
- 7. Do not assume that an existing one-call request will cover a change in plans
- 8. Do not assume that farmers and ranchers are exempt from requesting a locate



# General Safety Awareness

#### Other actions to consider

- Be cautious when operating machinery near aboveground natural gas facilities
- Do not burn brush piles over or near a pipeline or allow "controlled burns" to travel toward a pipeline or aboveground pipeline facility
- Certain areas of the country may have very specific concerns, such as forestry, cotton, vegetables, sugar cane, tree farms, or other specialized crops and processes



# Right of Way Restrictions

- Contact the pipeline operator before <u>any</u> excavation on the right of way, including
  - Planting trees or shrubs in the right of way
  - Constructing grain bins, maintenance sheds, silos, confinements or other structures in the right of way
- The pipeline operator will work with you to place these items so that they do not impede proper maintenance of the pipeline



#### How to Recognize a Natural Gas Leak

#### Sight:

- Discolored or abnormally dry soil or vegetation
- Bubbling in wet or flooded areas
- Blowing dirt
- Dead or discolored plants in an otherwise healthy area
- Exposed pipe caused by floods or earth movement

#### Sound:

Quiet hissing to loud roar, depending on leak size

#### **Smell:**

- An unusual smell or petroleum odor
- A rotten egg odor (mercaptin) but not in all cases



#### How React to a Natural Gas Leak

- Leave the area immediately on foot
  - Move uphill, upwind and upstream
- Abandon equipment being used
  - Do not attempt to move machinery
- Eliminate other sources of ignition nearby if safe to do so
  - Cellphone, running equipment or machinery
- Keep others away
- Do not attempt to stop blowing gas
- Call 911 and the pipeline operator from a safe location



#### In the Event of a Leak

#### Pipeline companies will

- Dispatch employees and emergency equipment
- Stop or reduce gas flow
  - Either remotely or at the site
- Work with local emergency responders
  - Evacuations
  - Road blocks
  - Crowd control



#### Keeping Natural Gas Facilities Safe

- Kern River conducts regular ground and aerial surveillance of our facilities to look for excavations and encroachments
- You can help keep our natural gas pipeline system safe by reporting suspicious activities near our facilities
  - To report suspicious activities or emergencies, contact our
    24-hour emergency line
    - 1-800-272-4817
  - For questions about our safety program, contact our public awareness line
    - 1-866-415-6165



#### Additional Resources

Visit these websites for more information on digging safely

- www.call811.com
- www.commongroundalliance.com



#### Remember



