

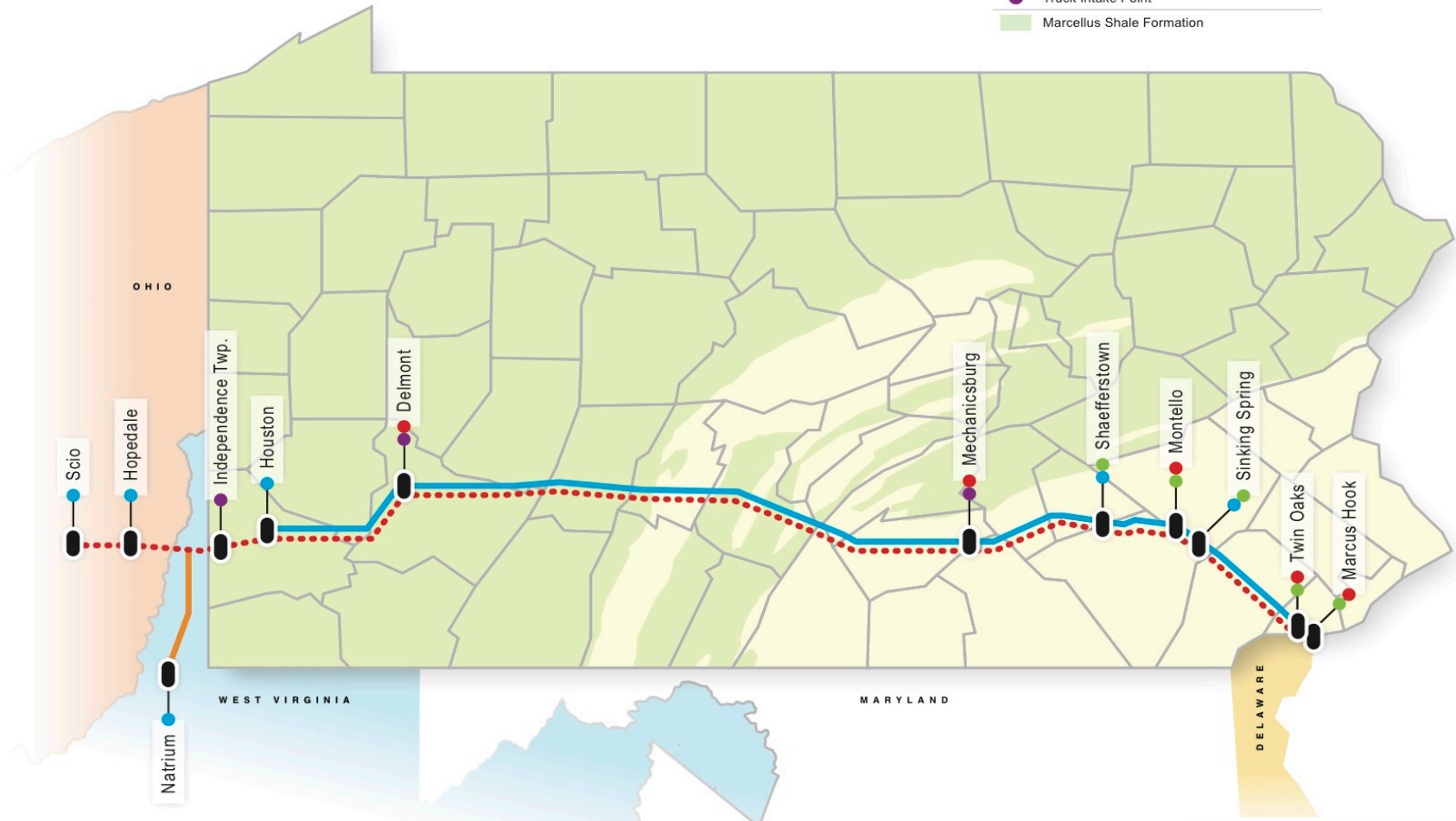
Mariner East: Proposed Project Route

Mariner East Pipeline Project



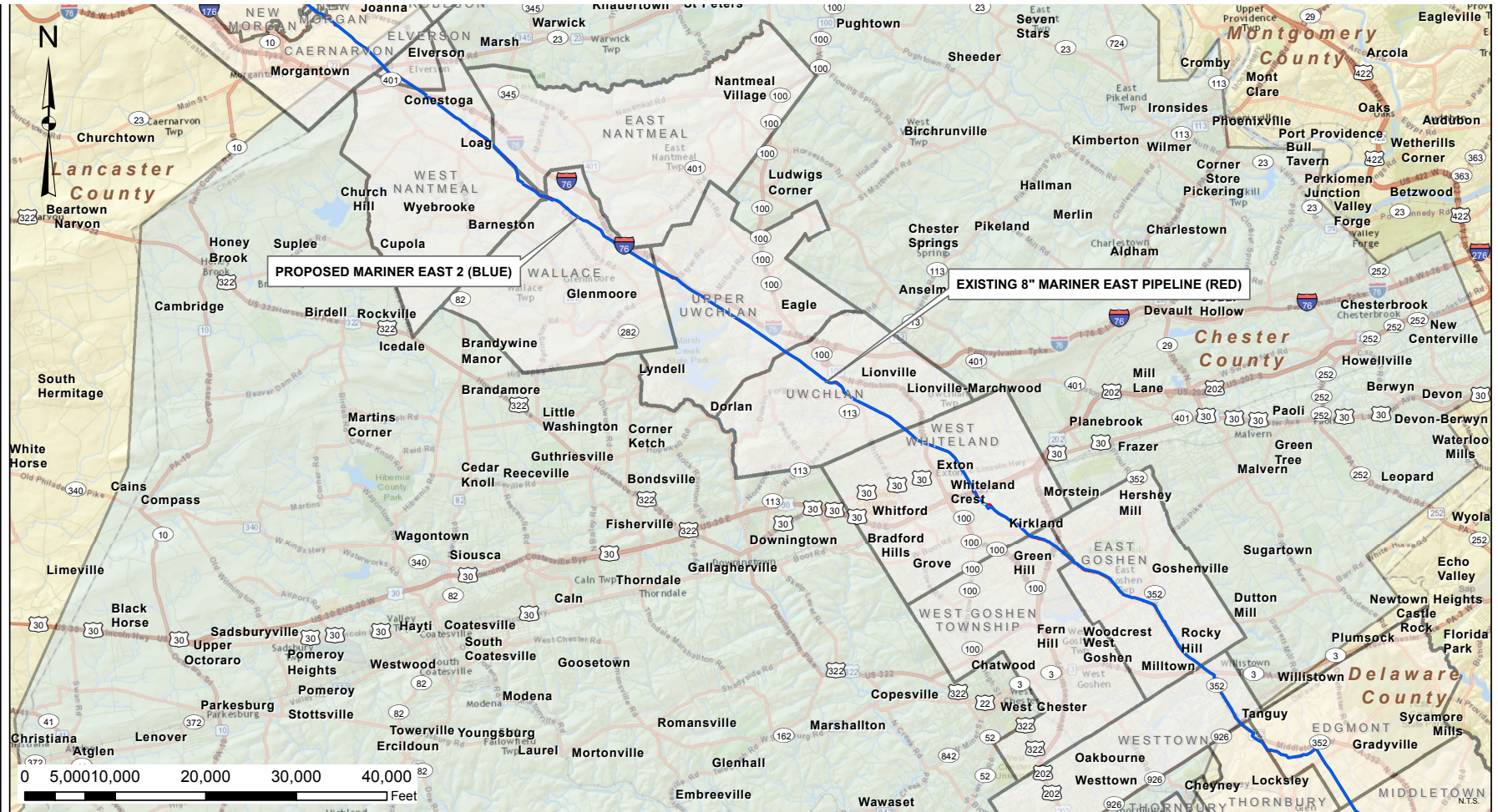
Sunoco Logistics

- Proposed ME2 Pipeline
- Existing Third Party Pipeline
- ME1 Pipeline
- SXL Terminal Facilities
- Third Party Facilities
- Propane Delivery Points
- Truck Intake Point
- Marcellus Shale Formation

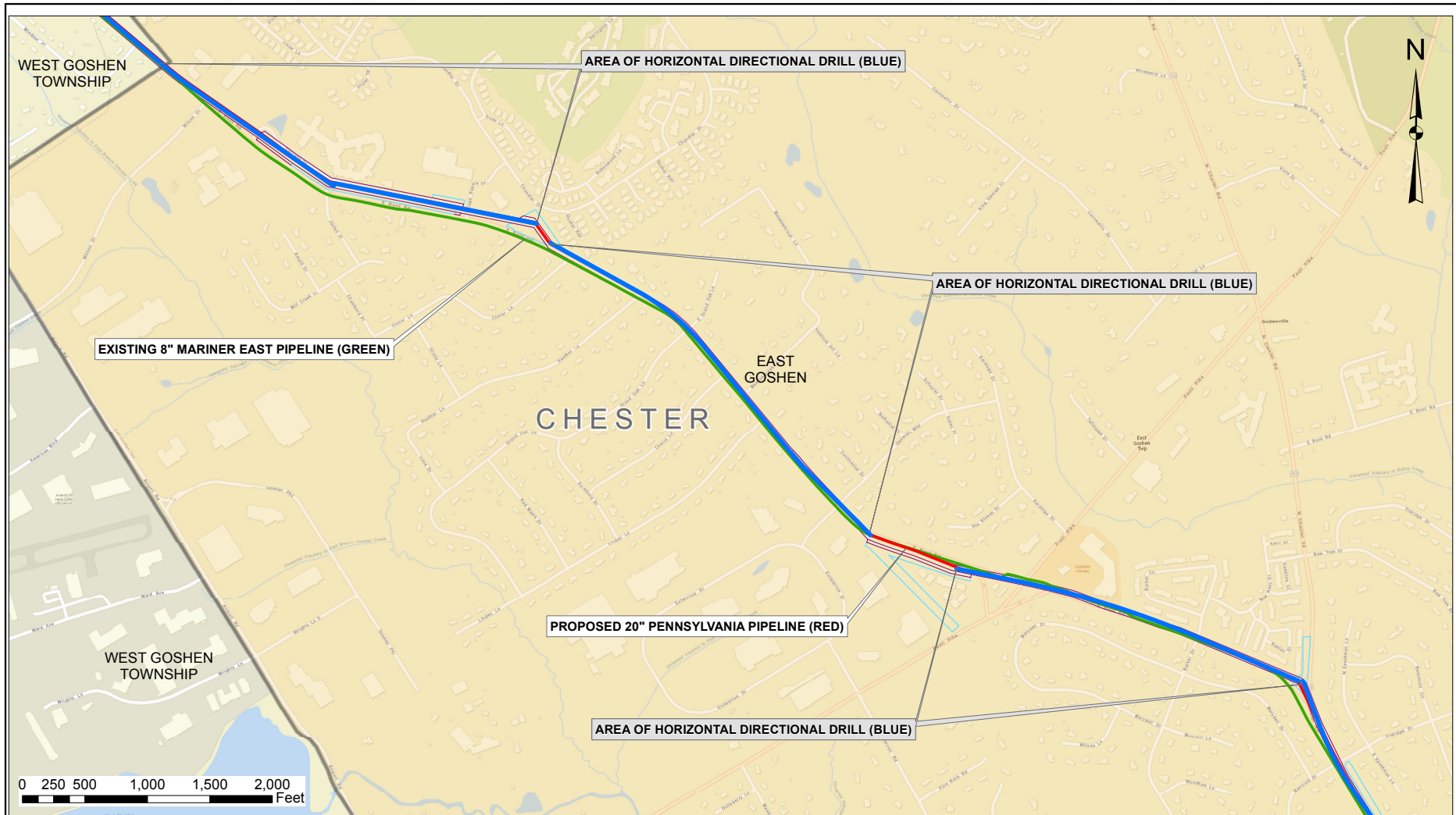


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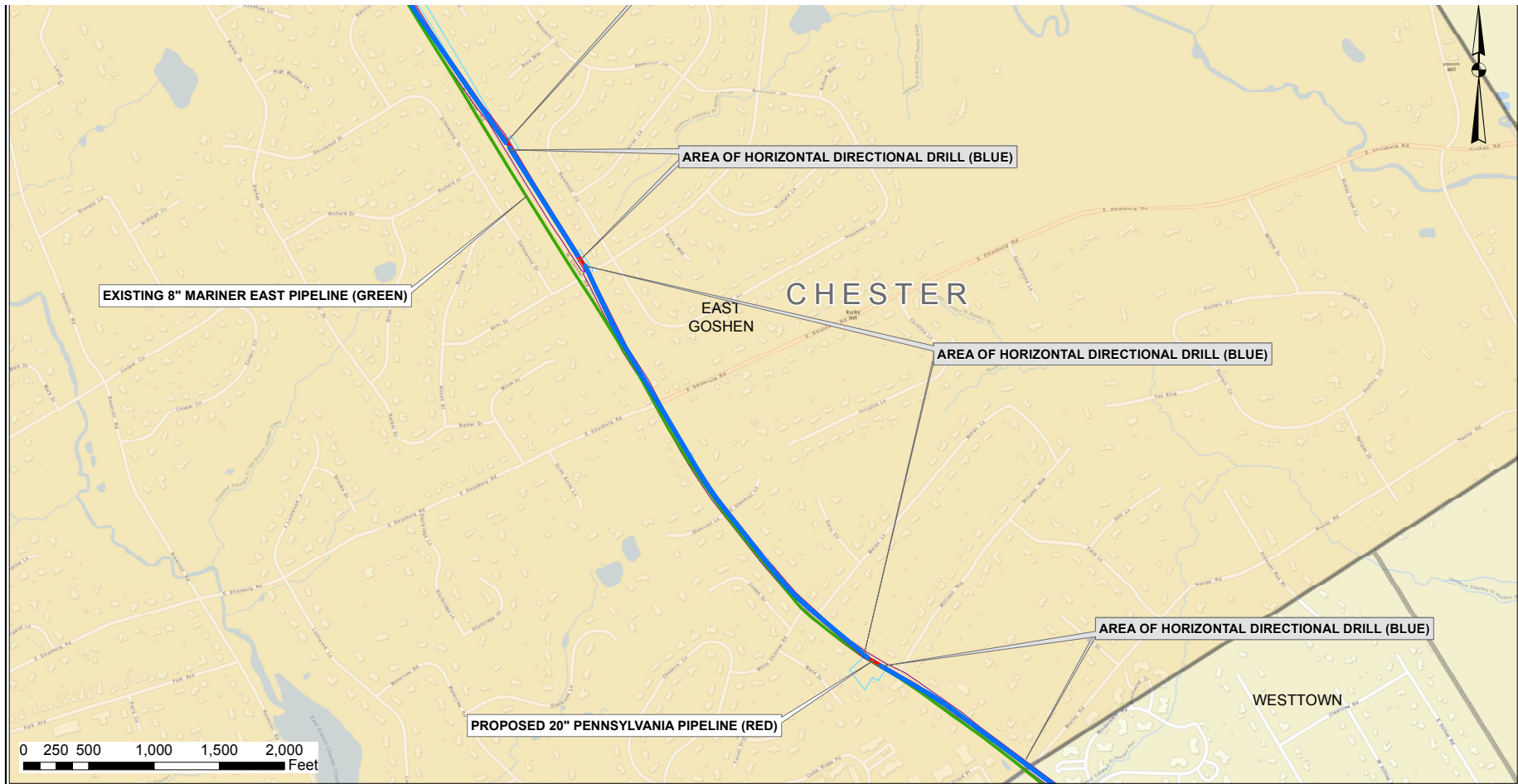
Mariner East Project: Chester County



Mariner East Project: East Goshen Township

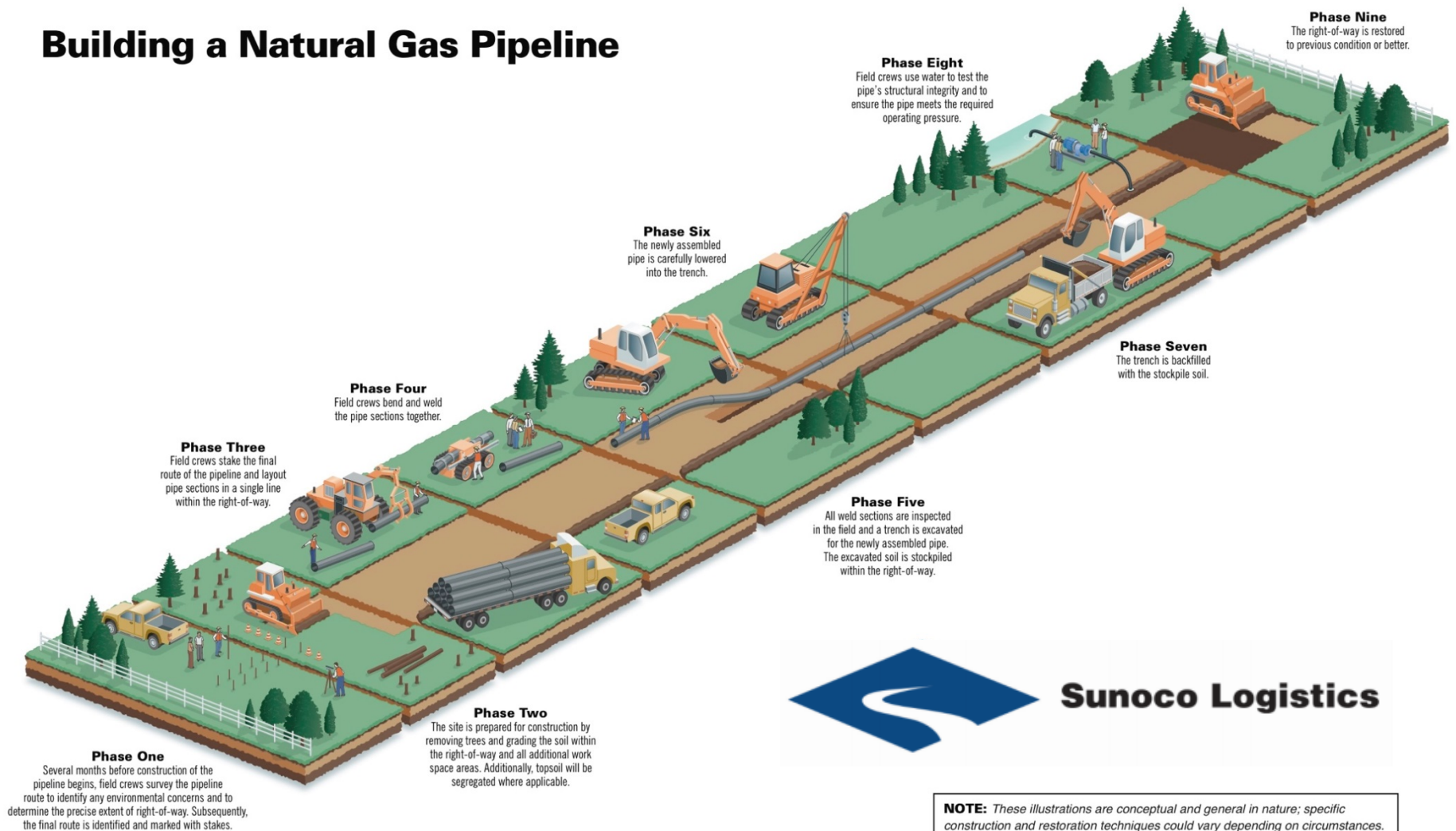


Mariner East Project: East Goshen Township



Construction Methods – Conventional Cut

Building a Natural Gas Pipeline



Conventional Cut Image

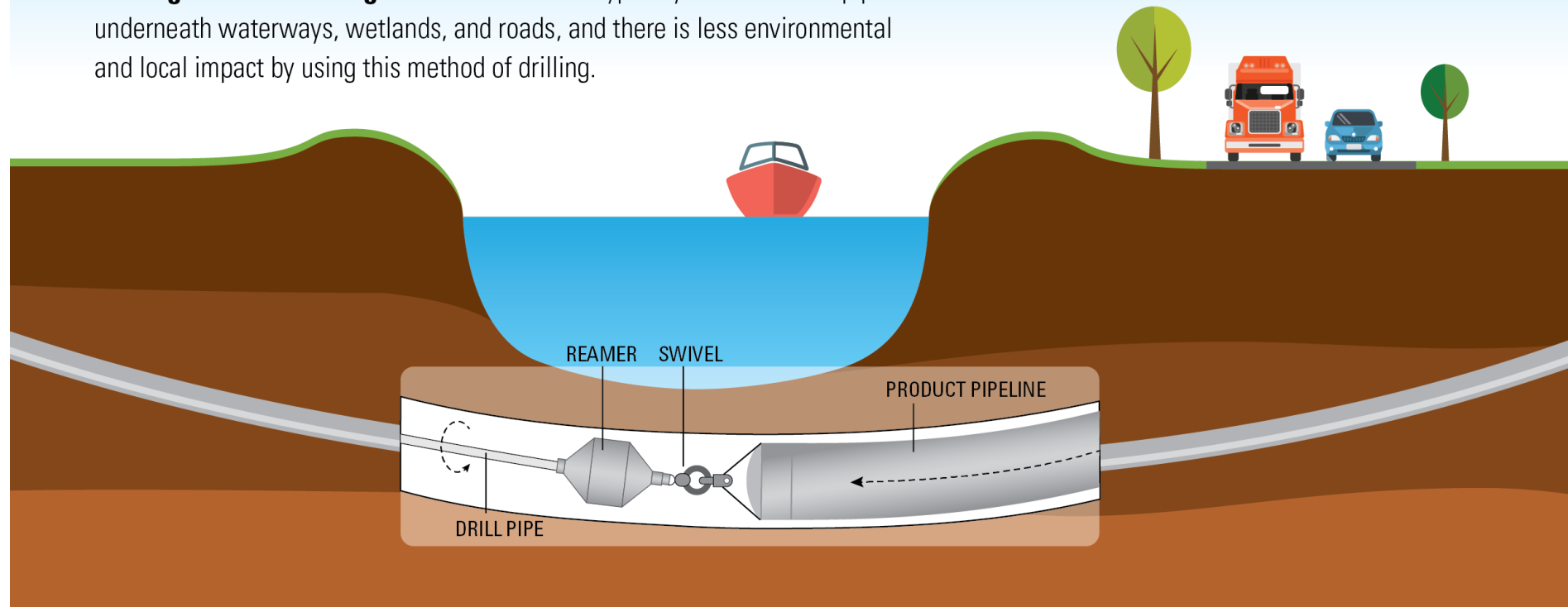


Construction Methods – Horizontal Directional Drill (HDD)

Horizontal Directional Drilling



Horizontal Directional Drilling (HDD) is used to install pipe underground over long distances. HDD is typically used to install pipe underneath waterways, wetlands, and roads, and there is less environmental and local impact by using this method of drilling.



Drill Rig Sample



- Pipe loader transports with the rig
- Micro-processor, touch screen controls
- Variable cooling fan for superior noise reduction
- Cummins QSX15 T4 final engine *(or Tier 3 depending on country of purchase)*



660,000 lbs. (300 Tonnes) Thrust//Pullback

Safety and Engineering

- Sunoco Pipeline has been operating NGL pipelines safely for more than 50 years.
- We conduct rigorous testing of all pipes, new and existing, using the most advanced technologies available to analyze a pipeline's condition.
- Pipelines are tested with water at pressures above maximum operating pressure before being placed into service.
- Professional controllers monitor the pipeline's pressure, temperature and flow 24 hours a day, 7 days a week from a control center dedicated exclusively to safe pipeline operation, and operators can shut down the pipeline remotely.
- We patrol the pipeline route, or right-of-way, by ground and by air for any potential hazards.

The safety of Sunoco Logistics' (SXL) employees and the community is our highest priority as an organization, and we believe that no project is worth doing if it cannot be done safely.

Noise Curtain Sample



Noise Curtain Sample

