



# Protocol for the Offsite Use of Virgin Petroleum Contaminated Surplus Soils

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MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

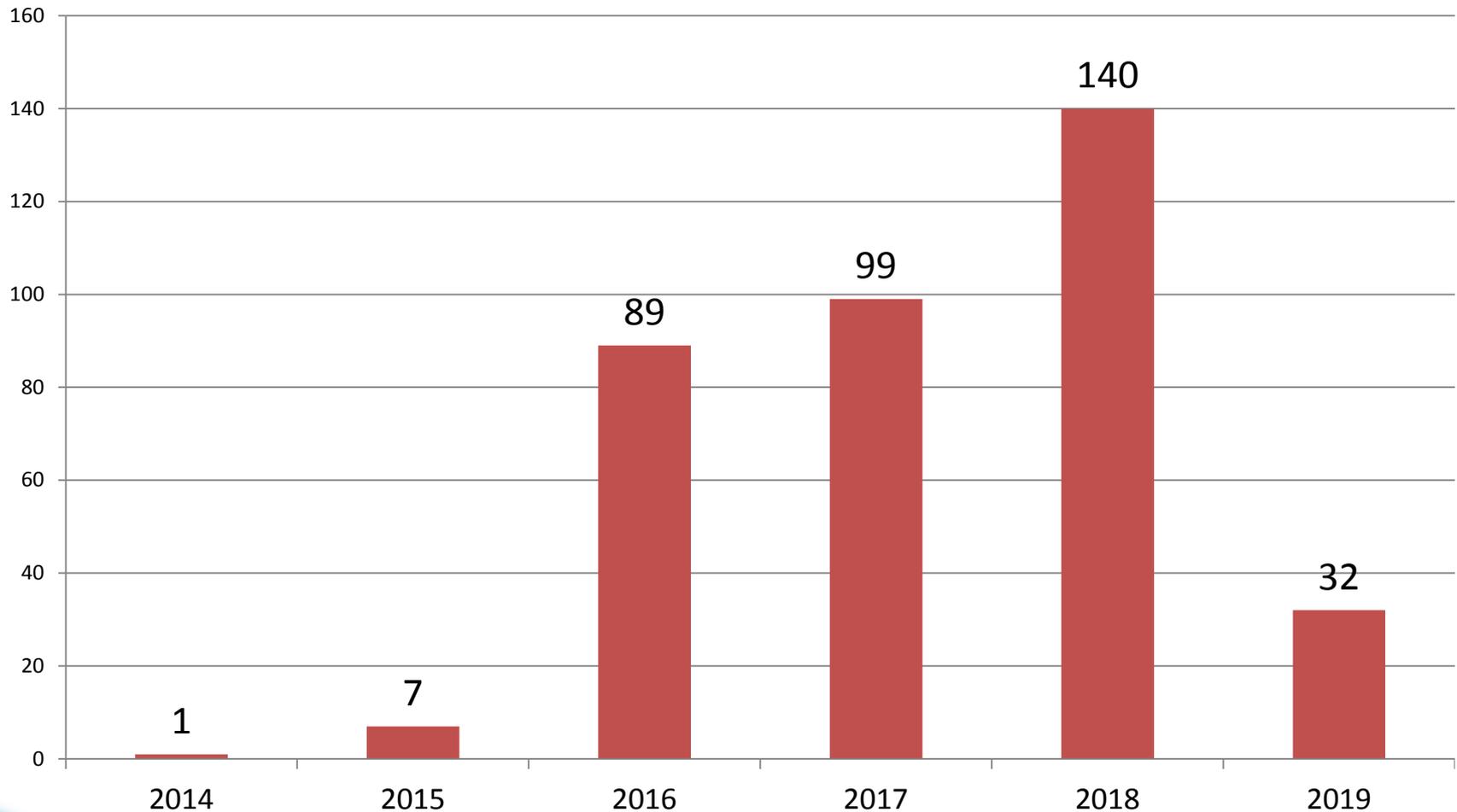
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# Why Is the Protocol Needed?

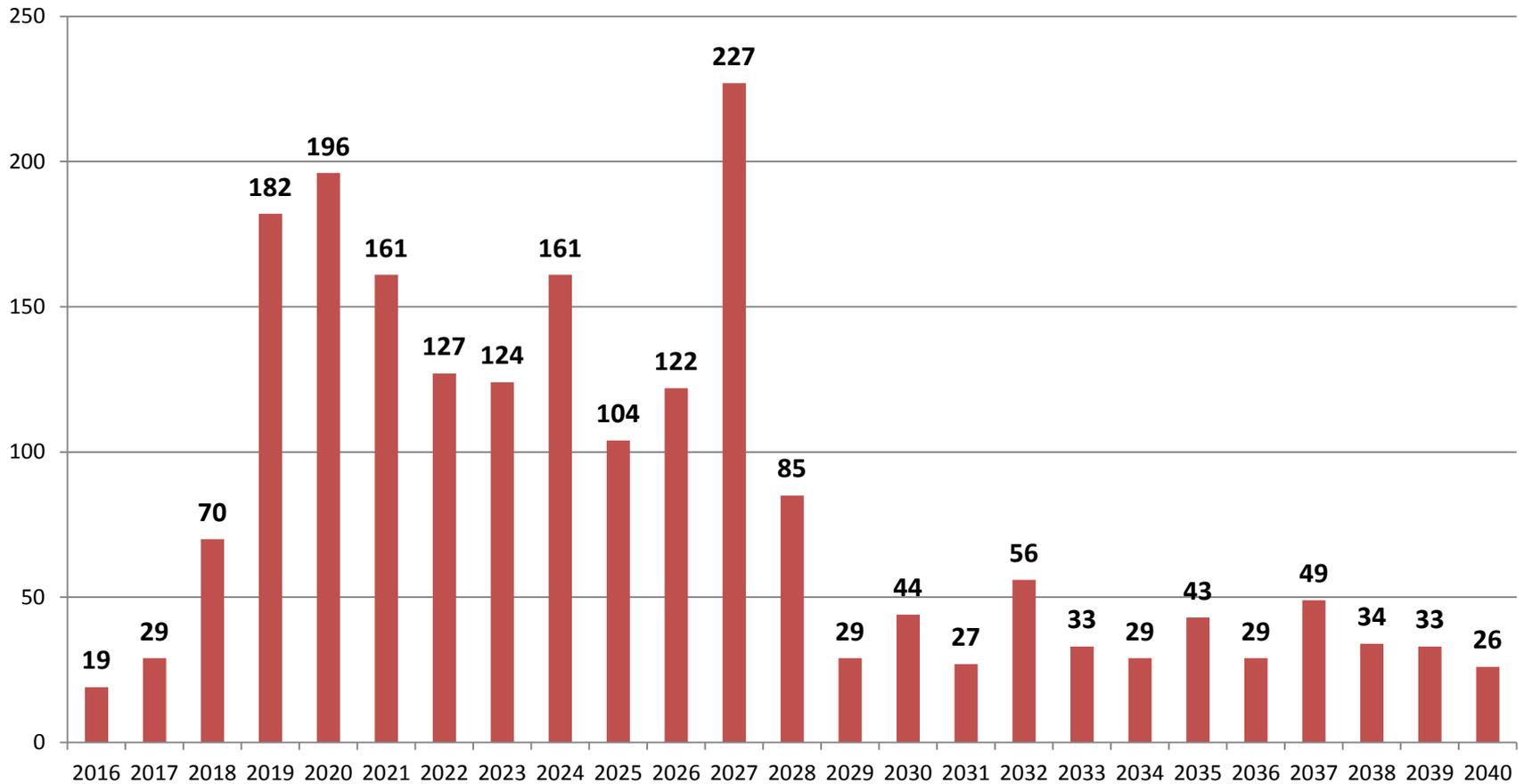
- A large number of existing underground storage tanks are soon expected to be replaced
- To provide a procedure for surplus soils with low, but detectible, levels of virgin oil contamination to be used off the site of generation without the need for a beneficial use license



# Single Wall USTs Reaching 30 Year Warranty Deadline 368 tanks at 133 sites



# Double Wall USTs Reaching 30 Year Warranty Deadline (computed by adding 30 years to installation date) 2039 tanks at 1201 sites



# Where Can the Protocol Be Used?

- Only at sites where the Department supervises the project
- Only where the Department determines the soils are contaminated by virgin petroleum products



# Defined Terms Used in the Protocol

Both “construction fill” and “inert fill” are defined in the Maine Solid Waste Management Rules, Chapter 400





# Meaning of Other Terms Used in the Protocol

- “surplus soil”
- “virgin petroleum contaminated surplus soil suitable for offsite use as construction fill”



# How the Protocol Works – Step 1: field screening

Surplus soil is field screened – the results determine its fate

- Soil that screens as below detectible levels of contamination
- Soil that meets the appropriate Leaching to Groundwater/ Notification field screening value
- Soil that screens as above the appropriate field screening value





# How the Protocol Works – Step 2: onsite temporary stockpiling

- A Virgin Petroleum Surplus Soil Evaluation Plan is drafted



# How the Protocol Works – Step 2: onsite temporary stockpiling

- Establish separate stockpiles for
  - field screened soil where petroleum levels were not detected;
  - soil with levels that were detectable but below the field screening criteria; and
  - soil with levels above the field screening criteria

# Stockpiled Soil



# How the Protocol Works – Step 2: onsite temporary stockpiling (continued)

- Access to the stockpiles must be restricted
- If soil will be stockpiled for more than 2 days it must be securely underlain by and covered with an impermeable material
- Soil must be removed to its final location within 30 days of being found acceptable for use as construction fill





# How the Protocol Works – Step 3: sampling and 00000 laboratory analysis

- The Protocol specifies the number of samples needed, and the appropriate sampling and analytical methods to be used to determine a stockpile's suitability for offsite use as construction fill



# Stockpile Sampling





# How the Protocol Works – Step 3: sampling and laboratory analysis (continued)

- For Surplus Soil to be found suitable for unrestricted use as construction fill:
  - All lab results must be below the guidelines provided in Table 1 of the Protocol
  - There must be no remaining visible discoloration or detectible petroleum odors in the soil



# How the Protocol Works – Step 3: sampling and laboratory analysis (continued)

- Any surplus soil that doesn't meet the criteria on the previous slide may still be beneficially used, but the specific end use scenario must be licensed under the beneficial use regulations (Chapter 418 of the Solid Waste Management Rules)





# How the Protocol Works – Step 4: recordkeeping & reporting

At the project's conclusion, all information compiled during the project must be summarized and submitted to the Department



# Please Remember

- Projects falling under this Protocol must be under the supervision of Department staff
- Erosion and sedimentation control
- Stormwater management
- All local, state or federal requirements must be met when using surplus soils as construction fill





# Can Inert Fill Be Generated?

Yes! Department staff can, in some cases, determine that soil or rock generated at sites qualifies as inert fill



**Are there any  
Questions?**

**Thank You!**





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