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# US Department Energy Use of OSE II on the Sunoco Terminal





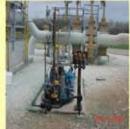






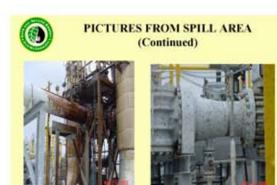








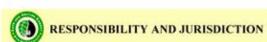
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- . SPR MANAGEMENT QUESTIONS
  - Who was responsible for the spill?
  - Who was responsible for handling and disposition of the spill cleanup material?
  - Which state agency has jurisdiction?
  - What are the reporting requirements?
  - What are the prescribed methods for disposition?



- . DynMcDermott is responsible for:

  - Cleanup activities
- Management of the contaminated material
- . RRC is the spill governing authority
- · RRC requirements must be followed

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#### NOTIFICATION REQUIREMENTS

#### Immediate Notification for:

- Spills greater than 5 barrels (210 gallons)
- Spills of any quantity that enters water
- Blowouts and/or fires
- Accidental releases of hydrogen sulfide gas
- Hydrogen sulfide-related accidents or
- Injury, death, property damage

  - (\$5,000) gas pipelines
     \$50,000) hazardous pipelines

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#### REPORTING REQUIREMENTS

- Crude oil spills over 5 barrels
  - 16 TAC 3.20 requirements
- Crude oil spills over 25 barrels
  - 16 TAC 3.20 requirements
  - Final cleanup report
  - Sample analysis results
- Crude oil spills of 5 barrels or less
  - No report required
  - Must meet 16 TAC 3.91 remediation standards

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## CLEANUP/RESTORATION REQUIREMENTS

- Cleanup
  - Remove free oil
  - Delineate the area
  - Excavate soil containing over 1% Total Petroleum Hydrocarbons (TPH)
  - Prevent stormwater contamination
- Soil remediation
  - Achieve 1% TPH cleanup level
  - No later than one year from date of incident
  - Bioremediate soil in accordance with 16 TAC 3.91
- . Use alternative methods
  - Must obtain RRC approval.

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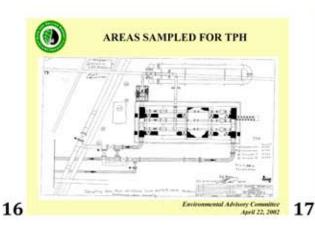
## COURSE OF ACTION

- Follow RRC cleanup requirements
- . Sample the area to determine the TPH levels
- . Develop an alternative bioremediation plan
- Obtain approval from the RRC

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## ALTERNATIVE BIOREMEDIATION PLAN

- Select an effective agent
- · Follow the directions for the product
- · Determine the volume of soil to be remediated
- Calculate the amount of agent to be added
- . Add the agent to the soil
- · Allow two weeks after the addition
- Sample for TPH
- · Verify 1% TPH or less
- · Reapply the excavated soil
- Repeat if TPH is greater than 1%

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## STATUS AND SHORT TERM

- Bioremediation agent added on 04/10/02
- Will be sampled again on 04/24/02
- If TPH < 1% soil will be reapplied</li>
- If TPH > 1% process will be repeated
- Expected completion date no later than 05/31/02

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## BMT-2 Spill Incident 12-29-01

The spill emnated from the mixer motor in the background (BMM-6). The oil was discovered by Ops personnel during routine checks that evening. The oil flowed along the area between the tank base and the walkway in a SE direction.

The evening of the spill, Operations personnel picked up the all the free oil using the vacuum truck and sorbents. The plan was to remove as much of the oil as possible then convene the second day to delermine the next phase of the cleanup.



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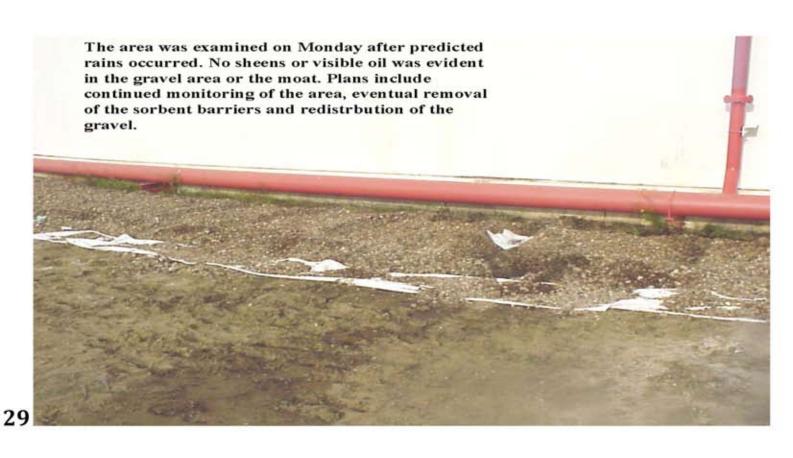


Approximately 1.3 gallons of ell was estimated to be beneath the gravet walkway. Removal of the gravet, (422 sq. ft.) would have required increased manpower and entiplement.









Oil Spill Eater II was used to successfully finish the Clean up of the storage tank mixer failing that produced this spill. The gravel around the storage tank did not have to be removed since OSE remediated the oil from site to CO2 and water.