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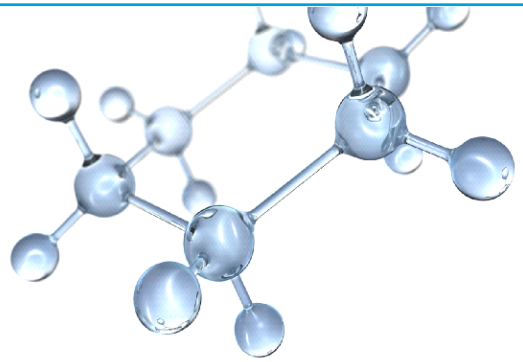
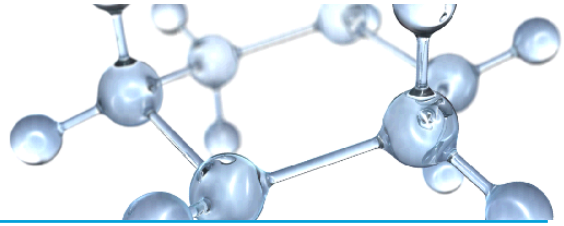


Esso Pipeline Emergency Response Pepperbox Hill, Salisbury

UKOPA – EPWG Workshop

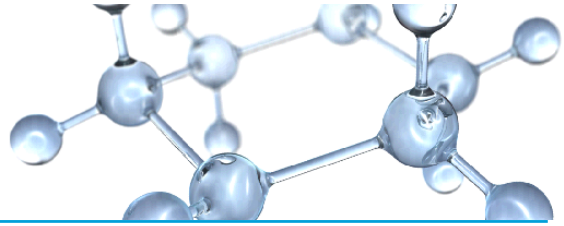
24th April 2013

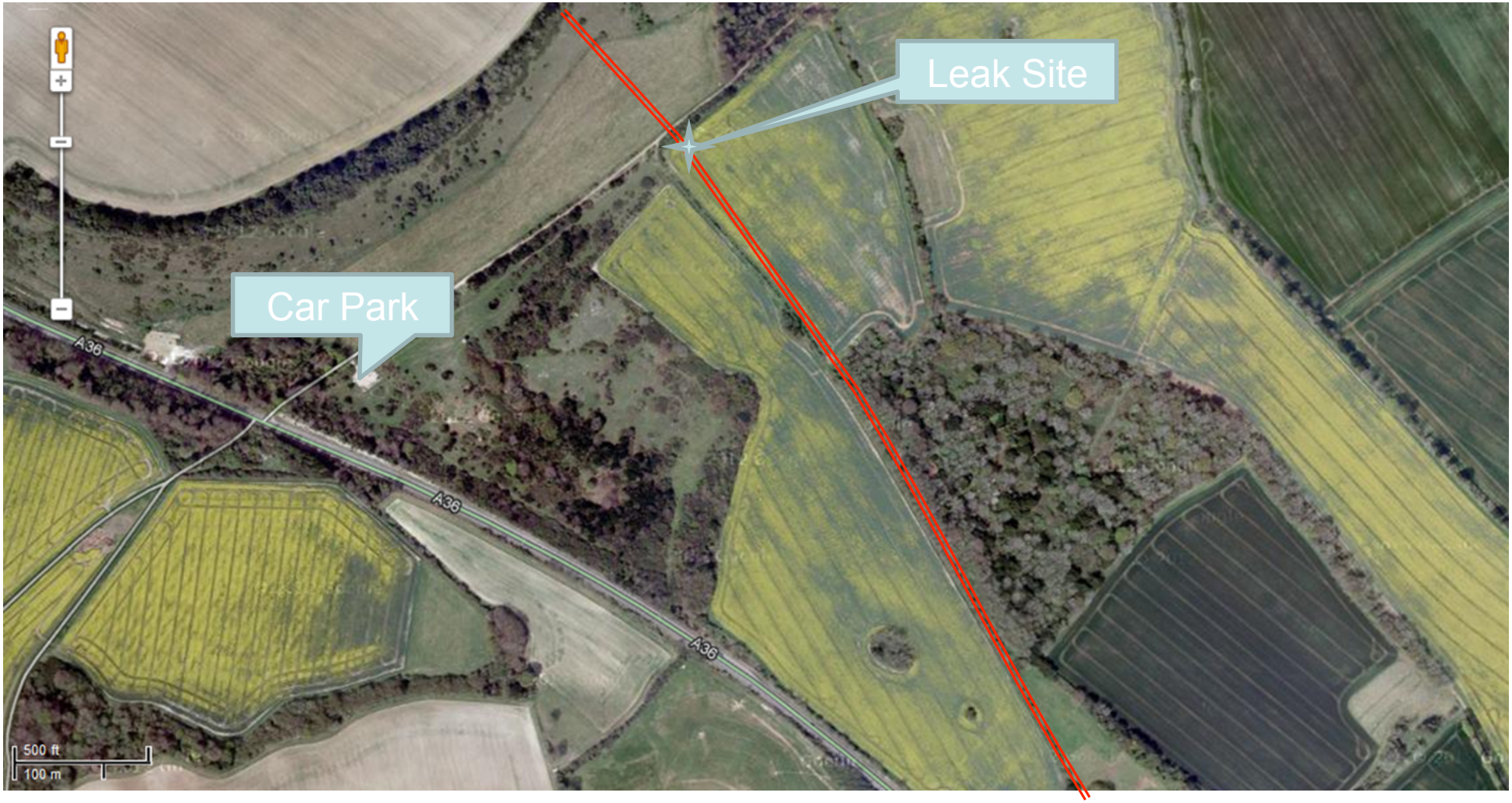
Background



- 12.30 on Wednesday 24th October a routine Cleaning PIG was launched on the Fawley to Avonmouth Pipeline.
- The pipeline was completely in Diesel service and had been for the previous 6 days.
- After approximately 4 hours pumping Esso's Pipeline Control Centre received a report from a member of the public of a smell of petroleum product at the Pepperbox Hill location, a few miles to the south east of Salisbury, Wiltshire.
- The pipeline was immediately shutdown and Esso's Pipeline Emergency response plan was initiated.

Background





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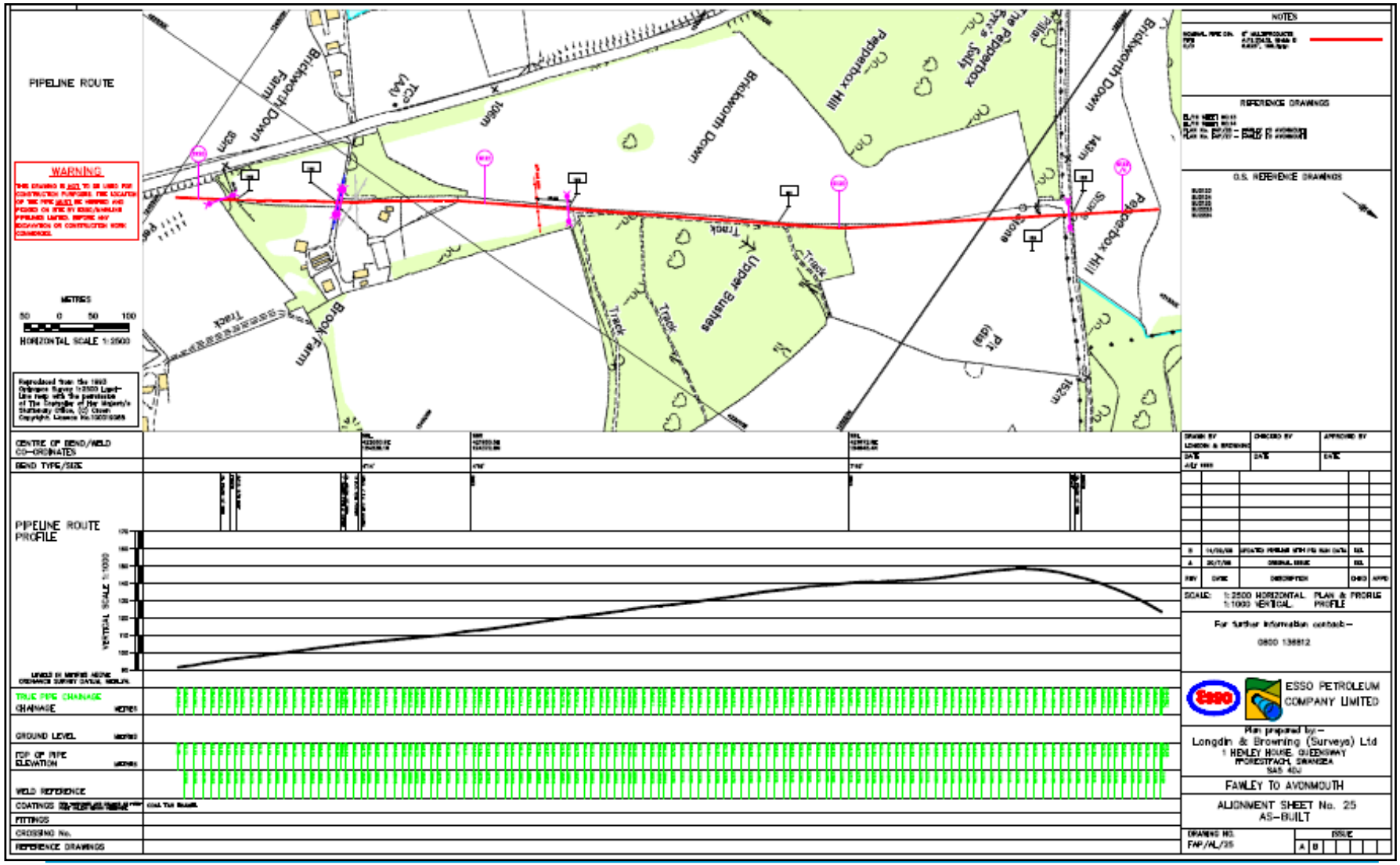

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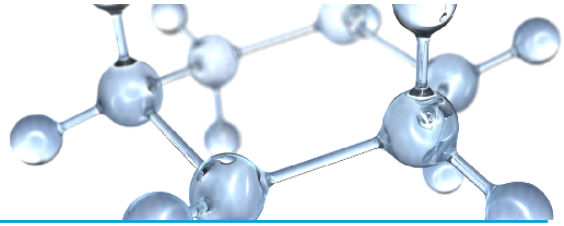
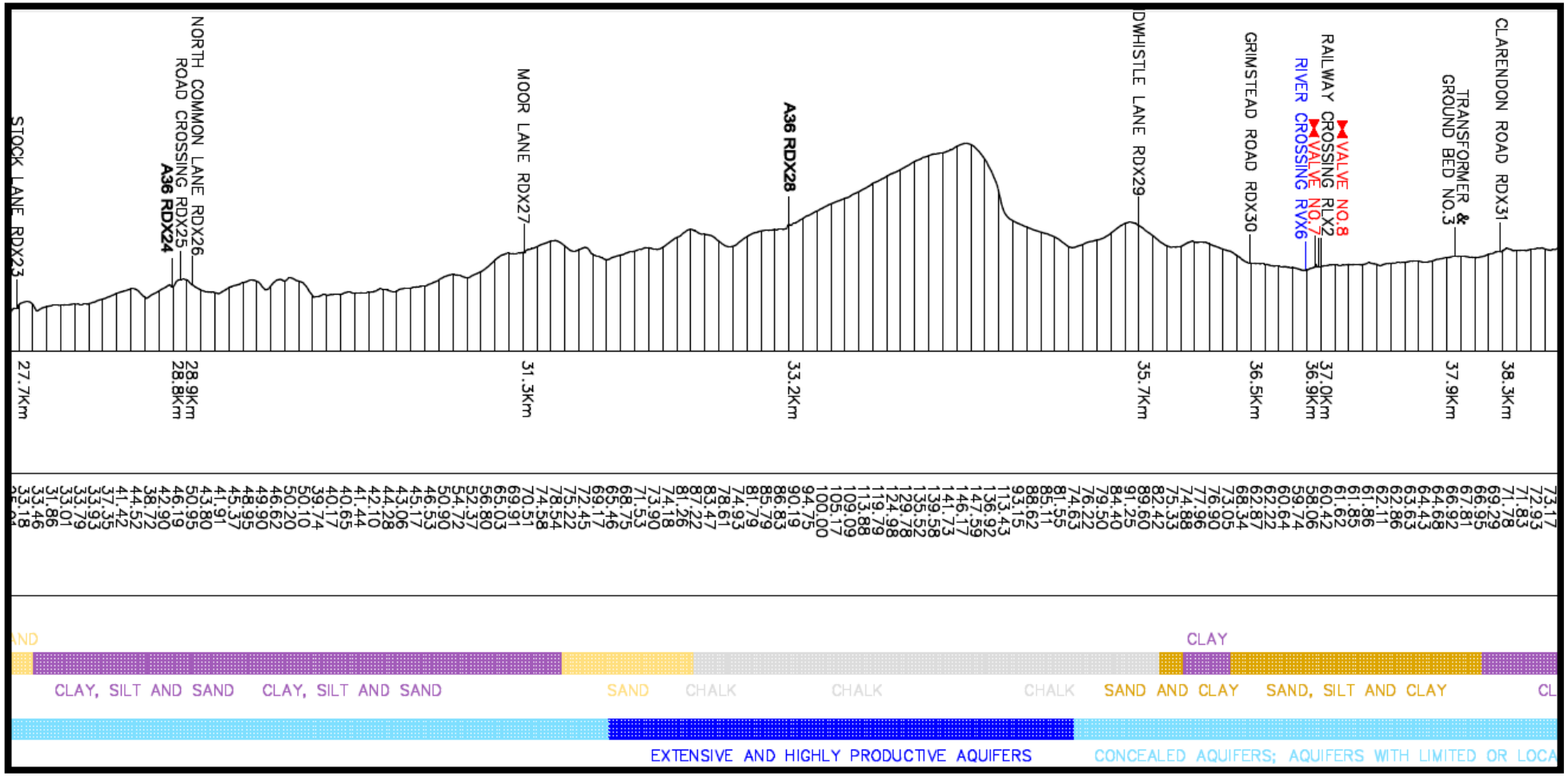
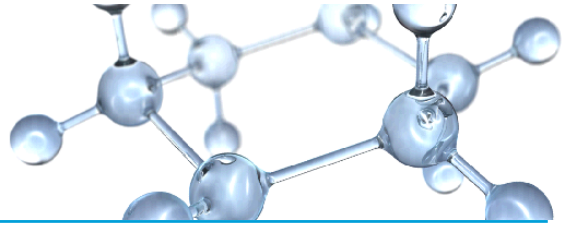


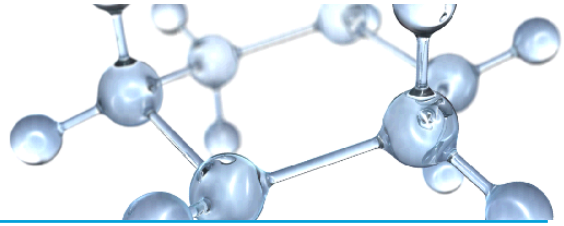


Initial Response



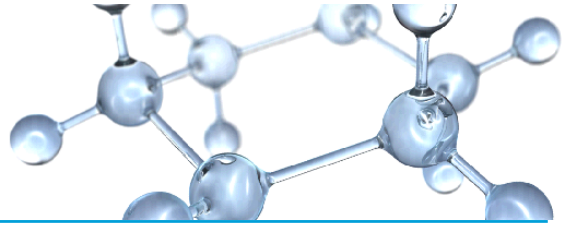
- 16.30, the pipeline was immediately shutdown and ER plan initiated
- At 16.50 the initial Site Incident Controller arrived on site and confirmed the presence of diesel on the surface at the edge of a field at Pepperbox Hill. A dynamic risk assessment of the area was completed as per ER training.
- At 17.00 PERO arrived at site and the downstream isolation valve was closed to minimise drain down volume at the pipeline defect site. This stopped the product release.
- The area was cordoned off and resources mobilised to effect a emergency temporary repair.
- Approximately 3 to 15m3 of Diesel released.

Emergency Phase



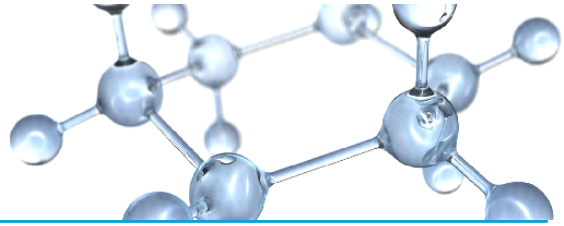
- Plan to excavate and repair pipeline devised and agreed by Esso management and 3rd party contractors.
- Pipeline defect exposed.
- Contractor and Esso management crew changed over to continue ER phase.
- Class 600 Plidco repair clamp installed over defect.
- Initial environmental impact assessment carried out by site personnel.
- Between 3-15 m3 estimated to have been released.

Environmental Phase



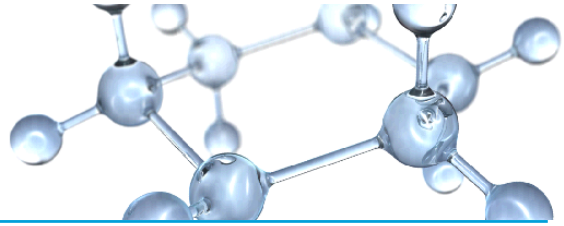
- Emergency Response phase swiftly transitions to Environmental Investigation/Remediation Phases
- Series of Shallow and Intermediate Boreholes drilled
- Medium to Long Term Access arrangements needed to be established along with licences for Borehole locations.
- Heavy reliance on existing grantor and agency relationships

Logistics



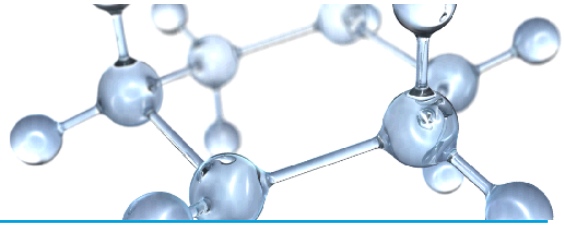
- Incident identified at end of day (fatigue v adrenaline!)
- Manpower availability
- Multiple landowners and agencies to deal with.
  - Site immediately adjacent to a SSSI
  - Popular local beauty spot (National Trust Car Park and amenity site)
- Difficult access between RVP (Car Park) and Incident site.
  - Availability of lighting
  - Power and comms
- Welfare Facilities & Security
- Public Affairs, Media, Environment Agency Alignment

Summary



- POSITIVES
  - ER Plan implemented swiftly and proved effective
  - Excellent response by staff, contractors (mechanical and environmental)
  - Good availability of GIS data, local knowledge and facilities
  - Strong and established landowner/occupier relationships
  - Release of product (diesel) swiftly arrested and repair clamp installed
  - PERO Training enabled a knowledgeable, calm and confident approach to the incident

Summary



- CHALLENGES
  - Evening/Night Work
  - Access logistics
  - Multiple stakeholders
  - SSSI
  - Managing interface between emergency response and environmental phases
  - Keeping Public Affairs "*ahead of the game*"