


SEPA  
Scottish Environment  
Protection Agency

## Good Management Practices in Forestry

### Reducing Diffuse Pollution from Forestry Related Activities in Galloway and Eskdalemuir Forests

John Gorman  
Senior Environment Protection Officer



[www.sepa.org.uk](http://www.sepa.org.uk)



SEPA  
Scottish Environment  
Protection Agency

## Project Aims

- Improve Communication links with State and private forestry – liaison meetings
- Workshops, awareness days, training & site visits, shared learning
- Site inspections –clearfelling, restocking, drainage works, road construction, quarries, pesticide/herbicide/fertilisers applications
- Help develop Best Practice Guide for forestry activities via DPMAG




[www.sepa.org.uk](http://www.sepa.org.uk)




SEPA  
Scottish Environment  
Protection Agency

## Main Problems

- Siltation from ground preparation, cultivation, harvesting and restocking
- Contaminated run-off from roadways
- Historical drainage systems
- Standing sales
- National disease obligations versus FWG5
- Quarry runoff
- Natural Regen
- Waste




[www.sepa.org.uk](http://www.sepa.org.uk)



SEPA  
Scottish Environment  
Protection Agency

## Forestry Commission fined £24,000 for Powys pollution

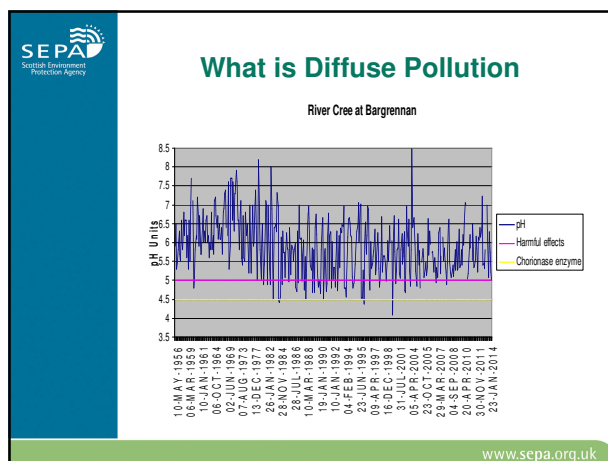
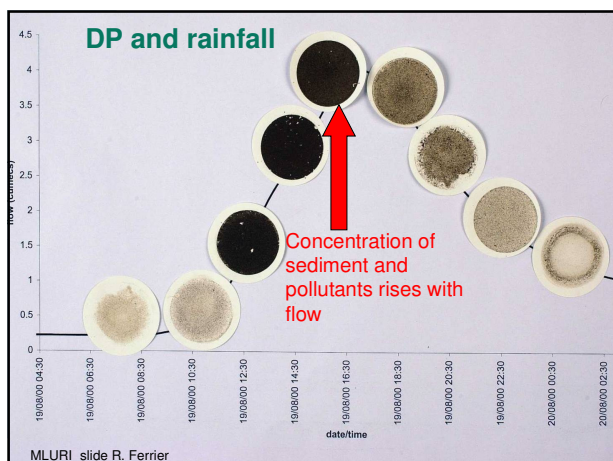


Soil and silt disturbed by heavy machinery strayed into a brook near Llanrhyd Wells

**"Start Quote**  
We are therefore extremely disappointed that we fell short of these standards on this occasion but we have taken action to prevent this happening again"  
End Quote Peter Garson Forestry Commission Wales



[www.sepa.org.uk](http://www.sepa.org.uk)



## Forestry Inspections

Summary – August 2014

Total Inspections	147
Compliant	102 [70%]
Non Compliant	45 [30%]
*Pollution Incidents	41
GBR20	27
GBR21	36
GBR22	5

www.sepa.org.uk

## Historical roadside ditches - Disconnect



www.sepa.org.uk

## Solution – Sump and Natural filter



www.sepa.org.uk

## Receptor protected



www.sepa.org.uk

## Roadside Drain



www.sepa.org.uk

## CHRONOLOGICAL DRAINAGE REVIEW

- **FWG2, 1991 [23 Years ago]** prevent roadside drains discharging direct to watercourses; where unavoidable provide silt traps and maintain them regularly.
- **FWG3, 1993 [21 Years ago]** Roadside drains carry high sediment load must not be allowed to directly connect to watercourses, re-direct to buffer areas
- **FWG4, 2003 [12 Years ago]** Old drain clearing presents high risk of pollution, drains should be realigned to ensure volume flows onto vegetated ground and NOT into watercourses. Existing drains should not drain directly into watercourses
- **FWG5, 2011 [3 Years ago]** Realign existing drains, avoid watercourse connections, redirect to buffer zones

www.sepa.org.uk





## Working Quarries



[www.sepa.org.uk](http://www.sepa.org.uk)

## Quarry Runoff



[www.sepa.org.uk](http://www.sepa.org.uk)

## Pond & Soakaway Treatment



[www.sepa.org.uk](http://www.sepa.org.uk)

## Select Best Option



[www.sepa.org.uk](http://www.sepa.org.uk)

## SUMMARY

- Quality Site Pre-Planning, Work Plans-Pull out flow chart of key decisions & tick list ?
- Notebooks for machinery Operators
- Think **Source-Pathway-Receptor**
- Pollution prevention NOT remediation
- Contingency check list eg Stockpile of materials on site, oil pads, contact lists ?
- Dummy copies of Plans for reference ?

[www.sepa.org.uk](http://www.sepa.org.uk)