WILDLIFE INCIDENT UNIT

16/11



WILDLIFE INCIDENT REPORT

INCIDENT NUMBER

16/11

RESTRICTED

PART OF STUDY

FSGD-130

REGIONAL NUMBER

W/11/04

OTHER REFERENCES 28/B0159/03/11

SENDER

VLA Carmarthen

LOCATION

Clarbeston

Pembrokeshire

GRID REFERENCE

SN0422

INCIDENT DATE

10 March 2011

SUSPECTED CAUSE

OF INCIDENT

fenthion

veterinary use

DATE OF REPORT

2 June 2011

REPORTING OFFICER

SIGNED: ...

NUMBERS AND SPECIES INVOLVED

red kite

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WILDLIFE INCIDENT REPORT

16/11 RESTRICTED

Samples received D	Date received	Sample identifier
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89840 red kite 16/3/11 28/B0158/03/11 89840 red kite tissues 16/3/11 28/B0158/03/11

Summary of field data

A dead red kite was found in a field. The red kite trust was contacted and they carried out a field visit, collected the carcase and delivered it to the VLA. The field is near a known red kite nest site. There were power cables over the field, but the bird was not found beneath them. There were also no obvious injuries or burns on the bird and it appeared to be an adult female in good body condition.

Summary of post mortem report

An adult, female red kite in fair to good condition and weight 1kg was submitted for post-mortem. There were moderate amounts of fat present. The liver appeared dark in colour. The crop was empty. The proventriculus contained a large amount of white/black wool or hair, which resembled lamb tails. The gastro-intestinal tract was empty beyond the proventriculus. The kidneys appeared dark in colour. Gross examination of the rest of the carcase did not reveal any significant abnormalities, but the endocrine system was not examined.

Analysis: carbamate (LC) analysis suite

89840	gizzard contents	no carbamate (LC) detected	detection limit	0.03	mg/kg		
Analysis : chloralose-alpha							
89840	kidney	no chloralose-alpha detected	detection limit	0.9	mg/kg		
Analysis : organophosphate analysis suite							
89840	gizzard contents	fenthion	confirmed	120	mg/kg		
Analysis : rodenticide analysis suite							
89840 89840 89840	liver liver liver	difenacoum brodifacoum bromadiolone	confirmed confirmed confirmed	0.014 0.07 0.008	mg/kg mg/kg mg/kg		

Conclusion

It was suspected that this red kite had been poisoned. Laboratory analysis for a range of likely pesticides has been undertaken on the submitted samples. These tests have detected and confirmed a residue of fenthion in the gizzard contents and the amount found is significant and likely to be the cause of death of this red kite. There were also residues of brodifacoum, difenacoum and bromadiolone confirmed in liver, consistent with exposure to several anticoagulant rodenticides. This incident has been attributed to veterinary use as fenthion was approved as a veterinary pesticide. However, there are no current approvals for this active substance and so an illegal use is suspected.