

Freshwater Biological Association  
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England

Contract No. 3519-88-11 ED ISP GB  
Between the Joint Research Centre, Ispra  
and the Freshwater Biological Association, Ambleside.  
Project Leader : I. Pettman  
Report Date : July 1989  
Report To : Joint Research Centre, Ispra  
FBA Report Ref. No. : WI/T1105211/2  
TFS Project No. : T1105211

ECDIN Contract No. 3519-88-11 ED ISP GB

Final Report on the updating service on  
environmental chemicals in fresh water for  
the period 9.1.89 to 9.7.89

by I. Pettman & A. Benning

The Freshwater Biological Association is grant-aided by the Natural  
Environment Research Council.

Freshwater Biological Association

Contract No : 3519-88-11 ED ISP GB

ECDIN : Updating service on environmental chemicals in the freshwater environment.

FINAL REPORT for the period 9.1.89 - 9.7.89

**1. LINES OF DATA**

During this six month period five batches of data have been despatched to the Joint Research Centre, Ispra.

Batch	Lines of Data	Nos. of Papers
1st	271	36 (7339 - 7374)
2nd	278	30 (7375 - 7404)
3rd	306	23 (7405 - 7427)
4th	275	33 (7428 - 7460)
5th	168	17 (7461 - 7477)
<u>Totals</u>	<u>1298</u>	<u>139</u>

The allocation of these data to the various ECDIN Database Files is tabulated below :

FILE	BATCH NO.					TOTAL
	1	2	3	4	5	
Aquatic Toxicity	263	266	194	256	140	1119
Bioaccumulation	3	10	112	18	28	171
Metabolism and Elimination	5	2	-	-	-	7
Biodegradation	-	-	-	1	-	1
						<u>1298</u>

**2. FORMATS**

Further adjustments have been made to two of the formats during the period of this contract. These adjustments have been made in liaison with Dr. W.

Penning, Ispra and L. Noble, Plymouth Marine Laboratory.

i) Small alterations have been made to the Metabolism and Elimination format :

Sheet 1, line 3 "ROUTE" = 11 boxes

"NO OF DOSES" - starts at No. 18 not 19

"DOSING FREQUENCY" = 10 boxes

See Annex 1 for a sample of this format.

ii) The name of the Biodegradation format has been changed to Biodegradation/Biotransformation.

Section BIDA09 has been changed :

From

	OP	VAL 1	VAL 2	METABOLITIES
BIDA09				
BIDA09				
BIDA09				
BIDA09				
BIDA09				

To

	%	METABOLITIES
BIDA09		
BIDA09		
BIDA09		
BIDA09		
BIDA09		

All data for this format extracted during the period of this contract have been reformatted to this new version.

See Annex 2 for samples of these formats.

### 3. MEETINGS

In addition to the liaison and training meetings with Plymouth Marine Laboratory detailed in the Interim Report\*, Dr. W. Penning, Ispra visited the Freshwater Biological Association for a one day Contract Meeting on the 12th

June 1989. Dr. Penning discussed the changes in organization, the progress and the future of the ECDIN database with I. Pettman and A. Benning.

The techniques of data extraction and input were consolidated and a system was set up to allow access to the Ispra computer by both the FBA and PML contract staff.

#### 4. DATA QUALITY AND STANDARDISATION OF TERMINOLOGY

The direct access to the Ispra computer, mentioned above, will in future allow rapid access to existing data. This will enable new data to be quickly compared with any existing data. Data can then be added selectively thus enabling the quality of the data in the database to be maintained as well as coverage and standardisation to be extended.

#### 5. INTERROGATION OF DATABASE ON DATACENTRALEN FROM USERS VIEWPOINT

During the period of this contract, the ECDIN database was accessed several times via the host DataCentralen in order to evaluate the retrieval of data from the users viewpoint.

The support staff of DataCentralen were very helpful and their telephone support service was very good.

The ability to search by broad taxonomic category has been helpful to users. Further detailed suggestions are being discussed with Dr. Penning.

Mr. I. PETTMAN

Miss A. BENNING

28.7.89

\* I. PETTMAN & A. BENNING. (1989) ECDIN Contract

No. 3519-88-11 ED ISP GB.

Interim Report on the updating service on environmental chemicals in freshwater for the period 9.1.89 to 8.4.89.

ANNEX 1 : REVISED FORMAT FOR

METABOLISM AND ELIMINATION

Freshwater Biological Association,  
Windermere, U.K.

ECDIN										ADD METABOLISM AND ELIMINATION																																																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
TRANS ECDIN										TRUNC. REG NAME										SPECIES CODE					DATA BIBLIOG. SUPPLIER REF.					PAGE																																																	
WELA00																				F B A										0100																																																	
WELA01										LIFESTAGE										ORGANISM										0200																																																	
WELA02										ROUTE					NO. DOSES					DOSING FREQUENCY					DURATION					DOSE					0300																																												
WELA03										TOTAL DOSE					UNIT					0400																																																											
WELA04										APPLICATION RATE					UNIT					NO. APPL. FREQUENCY					DURATION					0500																																																	
WELA05										CONCENTRATION					UNIT					EXPOSURE TIME					0600																																																						
WELA06										MEDIUM					SALINITY					HARDNESS					PH					TEMPERATURE					DISSOLVED OXYGEN					0700																																							
WELA07										SOLVENT										0800																																																											
WELA08										COMMENTS										0900																																																											
WELA08																				1000																																																											
WELA99										TRANS COUNT					SHEETS/OF					1100																																																											

ANNEX 2 : REVISED FORMATS FOR

BIODEGRADATION / BIOTRANSFORMATION

ECDIN

ADD BIODEGRADATION/BIOTRANSFORMATION

Freshwater Biological Association,  
Windermere, U.K.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

TRANS	ECDIN NO.	TRUNC. REG NAME	DATA	BIBLIOG.	PAGE
			SUPPLIER	REF.	
B	I	D	A	00	
			F	B	A
					0100

TYPE OF SEED/SPECIES NAME	ORIGIN	PAGE				
B	I	D	A	01		
						0200

ACC AER	MEDIUM	ACCESSORY NUTRIENTS	PAGE			
B	I	D	A	02		
						0300

PARAMETER MEASURED	PAGE					
B	I	D	A	03		
						0400

TEMPERATURE	SALINITY	PH	DISSOLVED OXYGEN	% ORGANIC MATTER	HARDNESS	PAGE				
OP	VAL 1	VAL 2	OP	VAL 1	VAL 2	OP	VAL 1	VAL 2		
B	I	D	A	04						
										0500

LIGHT REGIME	SOLVENT NAME	PAGE				
B	I	D	A	05		
						0600

CONCENTRATION	UNIT	PAGE				
OP	VAL 1	VAL 2	UNIT			
B	I	D	A	06		
						0700

COMMENTS	PAGE					
B	I	D	A	07		
						0800

B	I	D	A	07		
						0900

TRANS COUNT	SHEETS/OF	PAGE				
B	I	D	A	99		
						1000



