Report No. AMA/J95/R3

RADIOLOGICAL ASSESSMENT OF
RADIOACTIVE WASTE DISPOSAL
FROM NON-NUCLEAR PREMISES
IN ANGLIAN REGION
VOLUME 3 – DATA ON
AUTHORISATIONS

G D Burholt and	This book is due for return on or before the la	ast date shown below.
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November 1999	-	
Prepared for the Environment Agen Contract Ref. P0035/DOSE/C		
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ENVIRONMENT AGENCY

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SUMMARY

This report contains Volume 3 of the results of a study undertaken for the Anglian Region of the Environment Agency. The objective of the study was to undertake an assessment of the radiation doses to critical groups from authorised disposals and discharges of radioactive waste from premises other than nuclear sites within the Anglian Region.

The results of the study are presented in three volumes as follows:

- Volume 1 Methodology for assessment of the radiological impact of authorised releases from non-nuclear premises;
- Volume 2 Radiological assessment of authorised releases from non-nuclear premises in the Anglian Region; and
- Volume 3 Compiled data on authorised discharges from non-nuclear premises in the Anglian Region.

The present report comprises Volume 3 and contains detailed data extracted from the discharge and disposal authorisations effective in the Anglian Region as of Summer 1998.

A methodology for assessment of the radiological assessment of the discharges and disposals is presented in Volume 1 and the detailed results of the assessments are presented in Volume 2.

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1. INTRODUCTION

This Report has been prepared by Alan Martin Associates for the Anglian Region of the Environment agency (EA) under Contract Ref. P0035/DOSE/CT. The objective of the work covered by the contract is to undertake an assessment of the radiation doses to critical groups from authorised disposals and discharges of radioactive waste from premises other than nuclear sites within the region.

The results of the study are presented in three volumes as follows:

- Volume 1 Methodology for assessment of the radiological impact of authorised releases from non-nuclear premises;
- Volume 2 Radiological assessment of authorised releases from non-nuclear premises in the Anglian Region; and
- Volume 3 Compiled data on authorised discharges from non-nuclear premises in the Anglian Region.

The present report comprises Volume 3 and contains detailed data extracted from the discharge and disposal authorisations effective in the Anglian Region as of Summer 1998.

A methodology for assessment of the radiological assessment of the discharges and disposals is presented in Volume 2, and the detailed results of the assessments are presented in Volume 2.

2. COMPILATION OF DATA ON AUTHORISED DISPOSALS

The EA maintains a computerised database of registrations and authorisations under RSA 93 and the record may be searched by region, county, local authority, river catchment or by areas specified by National Grid Reference (GR) co-ordinates. This system allows identification of all premises within a defined study area holding authorisations for disposal. Detailed information on each of the identified premises may then be obtained from the files held in the Public Register, which is maintained at various EA regional offices. The information is mainly contained in the application form for authorisation (Form RSA3) and in the Certificate of Authorisation issued by the EA.

A complete list of authorised sites within the Anglian region, dated 30 April 1998, is shown in Appendix A. For the purposes of the present study a unique identification number was given to each of the non-nuclear sites. The current authorisation certificate for each site provided the annual disposal limit for each relevant radionuclide and any conditions specified for that disposal route. The current RSA 3 form, when available, provided further details of the site location and disposal arrangements. Actual disposals from each site were obtained from the annual report to the Environment Agency (emission inventories), where that was available.

The site information required for assessment purposes was compiled on data forms specific to each of the following disposal routes:

- liquid and gaseous disposal;
- disposal by incineration;
- disposal to landfill (within the region).

The data included details of the sewage discharge system, atmospheric discharge arrangements and distances to the nearest residence and point of public access.

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Within the East Anglian region, as of Summer 1998, there were 103 sites authorised to dispose of radioactive wastes, of which the following disposal routes are used:

- 83 sites discharging to sewer involving 28 municipal Sewage Treatment Plants (STP), 10 private STPs and 6 sites discharging directly to an estuary or to the sea;
- 38 sites discharging to atmosphere (including xx sites with incinerators);
- 1 site discharging to landfill.

The present assessment does not include radioactive wastes which are transported out of the region for disposal.

The following authorised sites were not included in the present assessment as the relevant data was not at that time available:

- Mobil Oil;
- Agricultural and Food Research;
- Animal Health Trust.

The completed data forms for individual authorised premises are included as Appendix B. The information on authorised disposals to sewer has been analysed and the implied authorisation for each sewage plant is compiled in Appendix C.

APPENDIX A

LIST OF AUTHORISED SITES IN ANGLIAN REGION

(Hand-written numbers in left margin are reference numbers for study)

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RSA93 S.13 - Effective Anglian Region

	Operator Name	Operator Complete Address - 12 2 10 10 10 10 10 10 10 10 10 10 10 10 10	Remissa	Local Authority Cours
01	BEDFORD HOSPITAL NHS TRUST			BEDFORDSHIRE
02	CHEMEX INTERNATIONAL PLC	74 SUNDERLAND ROAD. SANDY BEDFORDSHIRE \$G19 1QY	AY9103	BEDFORDSHIRE
03	CRANFIELD BIOTECHNOLOGY CENTRE	CRANFIELD UNIVERSITY CRANFIELD BEDFORD BEDFORDSHIRE MK43 DAL	AC2314	BEDFORDSHIRE
OU	SOIL SURVEY AND LAND RESEARCH CENTRE	CRANFIELD UNIVERSITY , SILSOE BEDFORD MK45 4DF	AL4163	BEDFORDSHIRE
05	UNILEVER RESEARCH COLWORTH LABORATORY	COLWORTH HOUSE SHARNBROOK BEDFORD BEDFORDSHIRE MK44 1LQ	AT1920	BEDFORDSHIRE
0	EG AND G LTD -	20 VINCENT AVENUE CROWNHILL MILTON KEYNES BUCKINGHAMSHIRE MKB OAB	AE4628	BUCKINGHAMSHI
07	HOECHST MARION ROUSSEL LTD -	WALTON MANOR, WALTON MILTON KEYNES MK7 7AJ	AW3252	BUCKINGHAMSHI
08	MILTON KEYNES GENERAL NHS TRUST	MILTON KEYNES GENERAL HOSPITAL, STANDING WAY, EAGLESTONE MILTON KEYNES MK6 5LD	BA2768	BUCKINGHAMSHI
PO		DAVY AVENUE, KNOWLHILL MILTON KEYNES BUCKINGHAMSHIRE MK5 8PH	1	BUCKINGHAMSHI
10	THE OPEN UNIVERSITY /	OPEN UNIVERSITY CAMPUS, WALTON HALL MILTON KEYNES MK7 6AA	AS8457	BUCKINGHAM\$HI
Į(ADDENBROOKES NHS TRUST HOSPITAL	ADDENBROOKES HOSPITAL, HILLS ROAD CAMBRIDGE CB2 2QQ	AY6767	CAMBRIDGESHIRE
12	ADVANCED TECHNOLOGIES (CAMBRIDGE) LTD	210 CAMBRIDGE SCIENCE PARK, MILTON ROAD CAMBRIDGE CAMBRIDGESHIRE CB4 4WA	AX3932	CAMBRIDGESHIRE
13	AFFINITY SENSORS	SAXON WAY BAR HILL CAMBRIDGE CAMBRIDGESHIRE CB3 8SL	AV4920	CAMBRIDGESHIRE
14	AGREVO UK LTD	THE REDLANDS, OAKINGTON ROAD COTTENHAM CAMBRIDGE CAMBRIDGESHIRE CB4 4TW	AM6455	CAMBRIDGESHIRE
15	AI QUALITEK LTD	LONDON ROAD PAMPISFORD CAMBRIDGE CAMBRIDGESHIRE CB2 4EF	AY7941	CAMBRIDGESHIRE
16	AXIS GENETICS PLC	BABRAHAM CAMBRIDGE CB2 4AZ	AX5471	CAMBRIDGESHIRE
1	BRITISH GAS PLC ·	EASTERN DIVISION, NENE WEST AGI, FERRY LANE NEWTON WISBECH CAMBRIDGESHIRE PE13	AJ0647	CAMBRIDGESHIRE
19	COMBRIDGE ANTIBODY TECHNOLOGY LTD	THE SOIENGE PARKMELBOURN ROYSTON HERTFORDSHIRE SG8 6JJ	 AQ0081	CAMBRIDGESHIRE
	CAMBRIDGE ANTIBODY TECHNOLOGY LTD	THE SCIENCE PARK MELBOURN ROYSTON HERTFORDSHIRE SG8 6JJ	AX6826	CAMBRIDGESHIRE
Ic	CAMBRIDGE SCIENTIFIC INSTRUMENTS LTD	UNITS 7 AND 8, SEDGEWAY BUSINESS PARK, WITCHFORD ELY CAMBRIDGESHIRE CB6 2HY	AT3833	CAMBRIDGESHIRE
2	CANTAB PHARMACEUTICALS LTD	184 CAMBRIDGE SCIENCE PARK, MILTON ROAD CAMBRIDGE CB4 4GN	AT4287	CAMBRIDGESHIRE
2	CHIROSCIENCE LTD	UNIT 252/254 CAMBRIDGE SCIENCE PARK, MILTON ROAD CAMBRIDGE CB4 4WE	AY5167	CAMBRIDGESHIRE
27	DALGETY FOOD INGREDIENTS LTD	FOOD INGREDIENTS DEVELOPMENT CENTRE, BLOCK B, STATION ROAD CAMBRIDGE CB1 2JN	AZ2422	CAMBRIDGESHIRE
2	GENOME RESEARCH LTD	· ·	AN2862	CAMBRIDGESHIRE
2	4 HEXAGEN TECHNOLOGY LTD	214 CAMBRIDGE SCIENCE PARK, MILTON ROAD CAMBRIDGE CAMBRIDGESHIRE CB4 4WA	AW8564	CAMBRIDGESHIRE
25	HINCHINGBROOKE-HEALTH CARE NHS-TRUST	HINGHINGBROOKE HOSPITAL , HINCHINGBROOKE PARK HUNTINGDON CAMBRIDGESHIRE PE18	AM8032	CAMBRIDGESHIRE,
~	HINCHINGBROOKE HEALTH CARE NHS TRUST	HINCHINGBROOKE HOSPITAL, HINCHINGBROOKE PARK, HUNTINGDON CAMBRIDGESHIRE PE18	AZ8439	CAMBRIDGESHIRE
20		NEWMARKET ROAD, FORDHAM ELY CAMBRIDGESHIRE CB7 5WW	AX3878	CAMBRIDGESHIRE
2.	7 HUNTINGDON LIFE SCIENCES LTD	WOOLLEY ROAD, ALCONBURY HUNTINGDON CAMBRIDGESHIRE PE18 6ES	AW9714	CAMBRIDGESHIRE
2.	~ 1	DOUGLAS HOUSE, 18 TRUMPINGTON ROAD CAMBRIDGE CB2 2AH	BA2750	CAMBRIDGESHIRE
20	(INSTITUTE OF TERRESTRIAL EGOLOGY	MONKO WOOD ASSOTS RIPTON HUNTINGDON GAMBRIDGESHIRE PET 215	A07034	CAMBRIDGESHIRE
^	INSTITUTE OF TERRESTRIAL ECOLOGY	MONKS WOOD ABBOTS RIPTON HUNTINGDON CAMBRIDGESHIRE PE17 2LS	AS2157	CAMBRIDGESHIRE
30		211 CAMBRIDGE SCIENCE PARK, MILTON ROAD CAMBRIDGE CB4 4ZA	BA2636	CAMBRIDGESHIRE
3		THE AIRPORT CAMBRIDGE CB5 8RX	AZ4891	CAMBRIDGESHIRE
-37		MRC CENTRE, HILLS FOND CAMBRIDGE CAMBRIDGESHIRE COD 20H		GAMBRIDGE6HIRE
3	MEDICAL RESEARCH COUNCIL	STRANGEWAYS RESEARCH LABORATORY, WORTS CAUSEWAY CAMBRIDGE CAMBRIDGESHIRE	Al4573	CAMBRIDGESHIRE
3	MEDICAL RESEARCH COUNCIL	MRC CENTRE, HILLS ROAD CAMBRIDGE CAMBRIDGESHIRE CB2 2QH	AZ2236	CAMBRIDGESHIRE
<u></u>	5	DUNN NUTRITIONAL LABORATORY, DOWNHAMS LANE, MILTON ROAD CAMBRIDGE CB4 1XJ	AN4156	CAMBRIDGESHIRE
3	[]	HINXTON CAMBRIDGE CB10 1SB	AZ0896	CAMBRIDGESHIRE
3		UNITS 127 AND 137, CAMBRIDGE SCIENCE PARK, MILTON RD CAMBRIDGE CB4 4GW	AC8967	CAMBRIDGESHIRE
ĵ.		HUNTINGDON ROAD CAMBRIDGE CAMBRIDGESHIRE CB3 DLE	AC9203	CAMBRIDGESHIRE
	PAPWORTH HOSPITAL NHS TRUST	PAPWORTH EVERARD CAMBRIDGE CB3 8RE	AO3872	CAMBRIDGESHIRE
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-	PARKE-DAVIS NEUROSCIENCE RESEARCH CENT.		AR8943	CAMBRIDGESHIRE
				CAMBRIDGESHIRE
W.	PEPTIDE THERAPEUTICS LTD ~			CAMBRIDGESHIRE
42	PETERBOROUGH HOSPITALS NHS TRUST	·		CAMBRIDGESHIRE
43	PLANT BREEDING INTERNATIONAL	L		CAMBRIDGESHIRE
44	QUADRANT HOLDINGS CAMBRIDGE LTD -		ŀ	· ·
de	SCL BIOSCIENCE SERVICES LTD	211 CAMBRIDGE SCIENCE PARK, MILTON ROAD, CAMBRIDGE GB4 4ZA		CAMBRIDGESHIRE
-	SCL BIOSCIENCE SERVICES LTD			GAMBRIDGESHIRE
46				CAMBRIDGESHIRE
(A)	THE BABRAHAM INSTITUTE			CAMBRIDGESHIRE
48	THOROUGHBRED BREEDERS ASSOCIATION	·		CAMBRIDGESHIRE
49	UNIVERSITY OF CAMBRIDGE			CAMBRIDGESHIRE
50	UNIVERSITY OF CAMBRIDGE	I		CAMBRIDGESHIRE
51	UNIVERSITY OF CAMBRIDGE			CAMBRIDGESHIRE
52	UNIVERSITY OF CAMBRIDGE	\	AW3619	CAMBRIDGESHIRE
53	UNIVERSITY OF CAMBRIDGE	· ·	AM7664	CAMBRIDGESHIRE
_	WOLFSON BRAIN IMAGING CENTRE	ADDENBROOKE S NHS TRUST, HILLS ROAD CAMBRIDGE CB2 2QQ	AR6126	CAMBRIDGESHIRE
55	AGREVO UK LTD /	CHESTERFORD PARK LITTLE CHESTERFORD SAFFRON WALDEN ESSEX CB10 1XL	AV8712	ESSEX
	AGREVO UK LTD	OHEOTERFORD PARK LITTLE CHESTERFORD CAFFRON WALDEN ESSEX CB10 1XL	A04321**	E33EX
56	BASILDON AND THURROCK GENERAL HOSPITAL	BASILDON HOSPITAL, NETHER MAYNE BASILDON ESSEX SS16 5NL	AT1202	ESSEX
57	CARLESS REFINING AND MARKETING LTD 🦟	REFINERY ROAD HARWICH ESSEX CO12 4QG	AE7228	ESSEX
	ESSEX RIVERS HEALTHCARE NHS TRUST ,	COLCHESTER GENERAL HOSPITAL, TURNER ROAD COLCHESTER CO4 5JL	AR1701	ESSEX
•	ESSEX RIVERS HEALTHCARE NHS TRUST	ESSEX COUNTY HOSPITAL, LEXDEN ROAD COLCHESTER CO3 3NB	1	ESSEX
_	HUNTING BRAELTD			ESSEX
_	MAGNOX ELECTRIC PLO	BRADWELL-NUGLEAR-POWER-STATION-GASEOUS-DISPOSAL-AUTHORISATION - BRADWELL-ON		
_	MAGNOX-ELECTRIG-PLO	BRADWELL-NUGLEAR-POWER-STATION-LIQUID-DISPOSALIAUTHORISATION-REVISION-BRADW	and the second second	
_	MAGNOX-ELECTRIC-PLG	BRADWELL NUGLEAR POWER STATION BRADWELL ON SEA COUTHMINGTER ESSEX 6M0 7HP		1
_		DISTRICT-SURVEY LABORATORY (REAKES), WATERSIDE-ROAD, BRADWELL-ON-SEA-SOUTHMIN		
_	MAGNOX-ELECTRIG-PLG	BRADWELL-POWER STATION, BRADWELL-ON-SEA-SOUTHMINSTER-ESSEX-GM0-7HP		ESSEX
-	MAGNOX ELECTRIC PLC	BRADWELL NUCLEAR POWER: STATION BRADWELL ON SEA SOUTHMINSTER ESSEX OMO THE	AP9005	ESSEX
60	MID ESSEX HOSPITALS NHS TRUST	BROOMFIELD HOSPITAL, COURT ROAD CHELMSFORD CM1 5ET	AR8218	ESSEX
61	MOBIL OIL CO LTD ~	CORYTON REFINERY, THE MANORWAY CORYTON STANFORD-LE-HOPE ESSEX SS17 9LL		ESSEX
-	MOD	ATOMIC WEAPONS ESTABLISHMENT FOULNESS SOUTHEND-ON-SEA SS3 9XE	AI8617	ESSEX
62	NICHOLS INSTITUTE DIAGNOSTICS LTD -	WHITE HOUSE, HIGH STREET NEWPORT SAFFRON WALDEN ESSEX CB11 3PQ	1	ESSEX
63	RHONE POULENC AGRICULTURE LTD	ALDHAMS FARM, DEAD LANE LAWFORD MANNINGTREE ESSEX CO11 2NF	AH8816	ESSEX
64	SHELL UK LTD DOWNSTREAM OIL ~	SHELL HAVEN REFINERY STANFORD-LE-HOPE ESSEX SS17 9LD	AQ8026	ESSEX
	SOUTHEND HEALTH CARE NHS TRUST 🗸	SOUTHEND HOSPITAL, PRITTLEWELL CHASE WESTCLIFF-ON-SEA ESSEX SSO ORY	AT9548	ESSEX
	UNIVERSITY OF ESSEX -	WIVENHOE PARK COLCHESTER ESSEX CO4 3SQ	AM4428	ESSEX
	CONOCO LTD -	HUMBER REFINERY, SOUTH KILLINGHOLME GRIMSBY SOUTH HUMBERSIDE DN40 3DW	AW7258	HUMBERSIDE
69	LINDSEY OIL REFINERY LTD /	NORTH KILLINGHOLME IMMINGHAM GRIMSBY SOUTH HUMBERSIDE DN40 3LW	AZ0357	HUMBERSIDE
69	MILLENNINIUM INORGANIC CHEMICALS ~	LAPORTE ROAD IMMINGHAM GRIMSBY SOUTH HUMBERSIDE DN40 2PR AN 40 12	AE0207	HUMBERSIDE
70	MILLENNINUM INORGANIC CHEMICALS	PO BOX 20 GRIMOBY NORTH HUMBERSIDE DN37-8DP	AE0215	HUMBERSIDE
71	NORTH EAST LINCOLNSHIRE NHS TRUST	GRIMSBY HOSPITAL, SCARTHO ROAD GRIMSBY SOUTH HUMBERSIDE DN33 2BA	AZ2112	HUMBERSIDE
	CONOCO (UK) LTD / 7	PICKERILL DUNES VALVE PIT, THEDDLETHORPE GAS TERMINAL, THEDDLETHORPE MABLETHO	AV3567	LINCOLNSHIRE
72	CONOCO (UK) LTD - 3	PICKERILL DUNES VALVE PIT, THEODLETHORPE GAS TERMINAL, THEODLETHORPE MABLETHO	AW9471	LINCOLNSHIRE
73		101 MANTHORPE ROAD GRANTHAM LINCOLNSHIRE NG31 8DG	AR2058	LINCOLNSHIRE
		2		

	74	ADDRAS 30/04/98 10:31		
	LINCOLN AND LOUTH NHS TRUST 🗸	ST GEORGE S HOSPITAL, LONG LEYS ROAD LINCOLN LN1 1EF	AM8474	LINCOLNSHIRE
15	LINCOLN AND LOUTH NHS TRUST 🗸	COUNTY HOSPITAL, GREETWELL ROAD LINCOLN LNZ 5QY	AU0678	LINCOLNSHIRE
	PILGRIM HEALTH NHS TRUST /	PILGRIM HOSPITAL, SIBSEY ROAD BOSTON LINCOLNSHIRE PE21 9QS	AP7245	LINCOLNSHIRE
77	BRITISH SUGAR PLC 🧪	BRITISH SUGAR TECHNICAL CENTRE, NORWICH RESEARCH PARK COLNEY NORWICH NORFOL	AE0142	NORFOLK
78	INSTITUTE OF FOOD RESEARCH 🗸	NORWICH LABORATORY, NORWICH RESEARCH PARK, COLNEY LANE NORWICH NR4 7UA	AE4130	NORFOLK
79	JOHN INNES CENTRE 🗸	NORWICH RESEARCH PARK COLNEY NORWICH NR4 7UH	AS5946	NORFOLK
80	KING S LYNN AND WISBECH HOSPITALS NHS TR	QUEEN ELIZABETH HOSPITAL, GAYTON ROAD KING S LYNN NORFOLK PE30 4ET	AX2430	NORFOLK
21	MAFF 🗸	FOOD SCIENCE LABORATORY , COLNEY LANE NORWICH NR4 7UQ	AB5628	NORFOLK
82	NORFOLK AND NORWICH HEALTH CARE NHS TR	NORFOLK AND NORWICH HOSPITAL, BRUNSWICK ROAD NORWICH NR1 3SR	AU4789	NORFOLK
83	SHELL UK EXPLORATION AND PRODUCTION 🗸	GAS TERMINAL, PASTON ROAD, BACTON NORWICH NR12 0JE	AL1261	NORFOLK
84	UNIVERSITY OF EAST ANGLIA 🗸	EARLHAM, NORWICH NR4 7TJ	AS8694	NORFOLK
85	KETTERING GENERAL HOSPITAL NHS TRUST 🗹	KETTERING GENERAL HOSPITAL, ROTHWELL ROAD KETTERING NORTHAMPTONSHIRE NN18 8UZ	AT2659	NORTHAMPTONS
86	MALLINCKRODT MEDICAL UK LTD-	11 NORTH PORTWAY CLOSE, ROUND SPINNEY NORTHAMPTON NN3 8RQ	AR3259	NORTHAMPTONS
87	NORTHAMPTON GENERAL HOSPITAL NHS TRUST /	CLIFTONVILLE NORTHAMPTON NORTHAMPTONSHIRE NN1 5BD	AW9552	NORTHAMPTONS
88	SURELITE LTD /	PRIORS HAW ROAD CORBY NORTHAMPTONSHIRE NN17 5JG	AE0274	NORTHAMPTONS
89	WOODLAND HOSPITAL /	ROTHWELL ROAD KETTERING NORTHAMPTONSHIRE NN16 8XF		NORTHAMPTONS
90	AGRIGULTURAL AND FOOD RESEARCH COUNCIL	BROOMS BARN HIGHAM BURY ST. EDMUNDS SUFFOLK IP28 6NP	AH8158	SUFFOLK
		BALATON LODGE SNAILWELL ROAD . NEWMARKET SUFFOLK CB8 7DW		SUFFOLK
92	ANIMAL HEALTH TRUST /	LANWADES PARK, KENTFORD NEWMARKET SUFFOLK CB8 7UU	AZ8447	SUFFOLK
93		LOWESTOFT LABORATORY, PAKEFIELD ROAD LOWESTOFT SUFFOLK NR33 0HT	AJ6823	SUFFOLK
		REYNOLDS HOUSE, 166 HIGH STREET NEWMARKET SUFFOLK CB8 9AH		SUFFOLK
• •	HUNTINGDON LIFE SCIENCES LTD			SUFFOLK
-	MAGNOX ELECTRIC PLG			SUFFOLK
-	MAGNOX-BLECTRIC PLC	DISTRICT SURVEY LABORATORY, LOVER'S LANE LEISTON SUFFOLK		SUEEOLK
-				SUFFOLK
-				SUFFORK
_	MAGNOX ELEGTRIC PLG			SUFFOLK
-	MAGNOX ELECTRIC PLC			SUFFOLK
-	NUGLEAR-ELECTRIC LTD	SIZEWELL B.SITE , LEISTON SUFFOLK IP16 AUR		SUFFOLK
-	NUCLEAR ELECTRIC LTD	SIZEWELL-B-POWER-STATION , LEISTON SUFFOLK IP16-1UR		CUFFOLK
-		SIZEWELLB-ROWER-STATION+-LEISTON-SUFFOLK-IP16-4UR-		SUFFOLK
	NUGLEAR ELECTRIC LTD	DISCOVER DE DOMED CENTION LEIGTON QUEEOU VIDAG AUD		SUFFOLK
_	NUCLEAR-ELECTRIC-LTD	SIZEWELL-B POWER STATION - LEISTON-SUFFOLK-IP18-4UR		CHELOFK
	NUGLEAR ELEGTRIC LTD-	SIZEWELL-B.POWER-STATION LEISTON-SUFFOLK-IP16 4UR		SUFFOLK
-	NUCLEAR-ELEGTRIG-LTD	SIZEWELL B POWER STATION : LEISTON SUFFOLK IP46 4UR		SUFFOLK
-	NUGLEAR ELECTRIC LTD			SUFFOLK
_	NUGLEAR-ELECTRIG-LTD-	GEG SITE - SIZEWELL-B. POWER-STATION-LEISTON-SUFFOLK-IP16-4UE		SUFFOLK
96	ROSSDALE AND PARTNERS		J	SUFFOLK
97	ROSSDALE AND PARTNERS			SUFFOLK
	SUFFOLK COLLEGE V	ROPE WALK IPSWICH SUFFOLK IP4 1LT	4	SUFFOLK
•	THE IPSWICH HOSPITAL NHS TRUST	THE IPSWICH HOSPITAL, HEATH ROAD IPSWICH IP4 5PD	AP3126	SUFFOLK
	VCH LTD	UNIT 5, HIGHBURY ROAD BRANDON SUFFOLK IP27 OND	1	
			AV7589	SUFFOLK
	WARDLE STOREYS PLC	STOREYS INDUSTRIAL PRODUCTS LTD, BRANTHAM WORKS, BRANTHAM MANNINGTREE ESSEX	1	SUFFOLK
_	WEST SUFFOLK HOSPITALS NHS TRUST	WEST SUFFOLK HOSPITAL , HARDWICK LANE BURY ST. EDMUNDS SUFFOLK IP33 2QZ	AW0725	SUFFOLK
103	WHITE ROSE ENVIRONMENTAL -	THE IPSWICH HOSPITAL, HEATH ROAD IPSWICH IP4 5PD	BA2776	SUFFOLK

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APPENDIX B

COMPILED DATA ON AUTHORISED PREMISES

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Site name Ganfield Broteslands Site ref: 03 BED and location:

Cantield University:

Can

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Own STP

Nuclide	Authorised release per	• •			q)
	year (MBq)	1997	1996	1995	1994
H-3/C-14	48		0		
(total)	4.				
Otherexist	288		0		
Uha (total)					
1					
•					
					3-65
					
i					
				· 	
1					

2. Discharge to atmosphere

Stack beight:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
9.	year (MBq)	1997	1996	1995	1994	
	 					

3.Comments:

No RSA3 found

Site name Doll During and hand Site ref: 04 BED and location: Cranfield unint, Grid ref: 57 081 353 (153)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Anthorised	Actual release per year (M			lq)
	release per year (MBq)	1997	1996	1995	1994
C-14	240	0.6	0.3	0.3	47.5
				1	
	161				
					·

2. Discharge to atmosphere

Stack height: Vant system of building

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
س- الا	600		-		0.4
	1				
					
<u>L</u> .					

3. Comments: RSA3 incomplete

Site name Bodford Haspital, Site ref: 01 BED and location:

Bodford Grid ref: TL 047 489 (153)

1. Discharge to sewer

Flow from premises (per month): 7,500 m³

Name of sewage works: Bedford 500, Cardington

Nuclide	Authorised Actual release per year (MBq release per				(p)
	year (MBq)	1997	1996	1995	1994
1c-99m	238,000	110,000	130,000		0
TE-201	7200	66	89		
Ga - 67	3 600	110	92		
エ・123	2 400	0	0		
I - 131	1800	0	670		
In - 111	1776	0	0		
C+-51	88. 0	0	0		
I - 125	36	0	0		
Co. 57	12	0.07	0.37		
Other gasabt	1200	0.1	0.56		
alpha (total)				1.0	
			×-		ļ
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					ļ

2. Discharge to atmosphere

Stack height: Bulling an went.

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
Te-992	25,000	3.100	2,800			
RL 81/K+81-	250 000	nil	nil			
quaratro						
			<u> </u>			
		_				

Site name Chamae International Site ref: 02 BED

and location: Sandy, Bad.o. Grid ref: ? (approx Th 17 49)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	1 2)		
	year (MBq)	1997	1996	1995	1994
C14 H-3	300	1-(*	0.9*	0.7*	4.2
(tolak)		_		10	
 :- :-					
	 				
		4 -			
				+	
	 				
	-				
 -		(1+J)			

2. Discharge to atmosphere

Stack height: None

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
				j	
		<u>-</u>			

3. Comments: * listed as C-14
No RSA3 found

and location: Shanbook, Badford Grid ref: 498 260 (153)

1. Discharge to sewer

Flow from premises (per month): 18,000 m 3

Name of sewage works: Premises our 3720 + shoot for 5720

Nuclide	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994	
H-3	2,400	52.5	42.6	50.2		
C-19-	2 400	39.6	75.3	81.6		
Cr.51_	1200		0	0.014		
P- 32	1200	15 Ó	3.7	2.3		
P-33	1,200	1.0	ပ	9-9		
I-125	1200	28.9	30.9	48.2		
Fa-59	1200		0			
Y-90	1200		0			
In-111	1200		0			
5-35	1080	-	3-7	18.6	_	
Ca-45	900	- 1	0			
Ru-103	720		0			
CR-36	. 444		0			
Mx-54	444		0			

2. Discharge to atmosphere

Stack height: 25m (?)**

Distance and bearing to nearest residence: 1,500 m

Distance and bearing to nearest point of public access: 500*

Distance and bearing to nearest agricultural land:

Authorised	Actual release per year (MBq)				
year (MBq)	1997	1996	1995	1994	
60 000	530	609	2.4		
40,000	4		3.4		
 					
	release per year (MBq)	release per year (MBq) 1997	release per year (MBq) 1997 1996 60 000 530 609	release per year (MBq) 1997 1996 1995 60 000 530 609 2.4	

3. Comments: * Discharge & Share Brook and then

Great Que (5The discharge point 498 260)

She rates for use of sludge.

** Outhorisation states via fine supplement to

Site name E and location:	GeG hta. ionnhile, Milloni Bu	Site ref: Grid ref:	06 7	(approx. 57 873
---------------------------	-------------------------------------	---------------------	---------	-----------------

1. Discharge to sewer

Flow from premises (per month): 7
Name of sewage works: Valley

Nuclide	Authorised release per	Actual release per year (MBq)			
27.6	year (MBq)	1997	1996	1995	1994
4-3	30				0
C - 14	30				0
I-175	4,440				0
	3				
					
	-				
			 		

2. Discharge to atmosphere

Stack h	aight.

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
_	year (MBq)	1997	1996	1995	1994	
17						

Site name Hoechst Marion Roussel hts Site ref: 07 BUC and location: Welter, wilton Keynes Grid ref: 57 890 365

1. Discharge to sewer

Flow from premises (per month): 500 m 3
Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996*	1995 *	1994	
H-3, C-14	60,000		770	2,300	90	
(total)			- X			
5-35	3 000		0	-	-	
T - 125	3 000		54	20	15	
other exercist	600		0		=	
aible (total)						
			3.3			
			<u> </u>			
		ren				
					10-	

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997_	1996	1995	1994	
			141			
	 - 				100	

3.Comments:

* Part year only ?

Site name Milton Keynes General NHS Site ref: 08 Buc and location: milton Keynes General Hosp. Grid ref: SP 3685 3720 1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)			(p)
	year (MBq)	1997_	1996	1995	1994 *
Tc-99m	30 000		2,100		1,250
C+ - 51	888		36		14.9
T - 125	600		13		19
Cc-57, C-59	14.4		2.3		2·i
(total)					
Other escapt	12		_		
aifin (total)					

2. Discharge to atmosphere

Stack height:

N/A Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
				<u>-</u>		
						

Site name Pharmacia & Upjohn hts Site ref: 09 BUC and location: Knowlile, Milton Grid ref: (appare. SP 8738).

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
I-125	4.4		0.31		
					ļ
	 		 		
					
			+		
			<u> </u>		
		100			
			 		
					
					
	· · · · · · · · · · · · · · · · · · ·		+	 -	

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
4						

Site name Open University Site ref: 10 BVC and location: Jolton Hall, Milton Grid ref: 578836 | 578837

1. Discharge to sewer

Flow from premises (per month): 6,000 m³
Name of sewage works: (attack)

Nuclide	Authorised release per	Actual release per year (MBq)			1)
	year (MBq)	1997	1996	1995	1994
H-3, C-14	120,000		1,060 *		
(tatal)					
Other except	i 920		0.9		
cipha (total)					
cêplic (totel) ilbic (totel)	12		- L -		
				1.0	
					•
					-
					=
1	- 1				_

2. Discharge to atmosphere

Stack height:

NIA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq))
	year (MBq)	1997	1996	1995	1994
			·		

3.Comments:

* consists of 1,000 MBg H-3 plus 60 MBg C-14.

Site name addentooles NHS Tout Site ref: 11 CAM

and location: Hillo hand, Grid ref: Th 466 552

1. Discharge to sewer

Flow from premises (per month): 29,000 m³

Name of sewage works: millon STO, combridge

Nuclide	Authorised release per	Ac	tual release po	er year (MB	q)
	year (MBq)	1997	1996	1995	1994
H-3	18.000	4-63	749		
Gra - 67	31,200	3,010	4.446	147	
St - 89	2 400		150		
Tc-99m	960,000	476,000	471100		
In-111	14,400	1480	1339		
In - 113 m	12 000	_	0		
I-131	540,000	227,000	187900		
C-14	1.800	114	79		
P-32/P-33	9 600	160	253		
(in that)	-				
5.35_	3,600	352	392		
Ca-45	120		Ð		
Cr.51	8,400	1990	1534		
V-90	2.400	-	0		
my other	18.000.	1360	265		

2. Discharge to atmosphere

Stack height: 20 m (harpitel bilding)

Distance and bearing to nearest residence: 75 m

Distance and bearing to nearest point of public access: 20 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Ac)		
	year (MBq)	1997	1996	1995	1994
Tc-99 m	250	77.6	67.8		
	 				
					<u></u>
			_		

3. Comments: See atter sheat for incineration on site.

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name addentiones NHS Tour Site ref: 11 CAM

and location: 420s hord, Grid ref: The 466 552

Type of incinerator: Incines with afterbrines and wet serables

Stack height: Som

Distance and bearing to nearest residence: 200 m

Distance and bearing to nearest point of public access: 100 m

Distance and bearing to nearest agricultural land

Nuclide	Authorised	Actual disposal per year (MBq)				Estimated
	disposal					release per
	per year					year (MBq)
	(MBq)	1997	1996	1995	1994	J = (- 4)
4-3	4,800	62	19			i4 800
C-14	1320	44	39			1320
P-32 P-33	2520	نيات	0			2520
(tetai)						
5-35	3,240	119	0			3240
Cr-51	1,200	74	_			1,200
In-111	1440	84	_			1440
I - 125	8 400	1.180	1,583			8 400
I- 131	600	59	46			600
Other excelot	१८०	, {	4		<u> </u>	900
alpha /ttal						

Partition factors: 100% = atmosphere por all mulides

Comments: about disposal limits refer to organic liquids plus solids. Dita about has authorisation for disposal via University of Combondaye to milton laudfill

Site name Odvanced Tachnologies Site ref: 12 CAM and location: milton houl, Grid ref: TL 466 613

1. Discharge to sewer

Flow from premises (per month): 97.5 m³
Name of sewage works: wilter 5700

Nuclide	Authorised release per	Actual release per year (MBq)			q)
	year (MBq)	1997	1996	1995	1994
5-35	2400	: 76	121	180	
P-32	2400	128	422	188	
C-14	444	2.78	89	23	
工- 125	111	-	_		
H-3	60	9.26	17.3	-	
P-33	1200	34			
,					X
	_				
	-1				
_					

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq))
	year (MBq)	1997	1996	1995	1994
	 				
		0			

3. Comments: 4 11: 1: 23 7: 6 | P23 1

Site name affinity Sensons and location: Bar Hile, Cambridge

Site ref: 13 CAM

Grid ref:

Capprox. The 38 64

1. Discharge to sewer

Flow from premises (per month): 20 m³

Name of sewage works:

milton STW

Nuclide	Authorised release per	Actual release per year (MBq)			(p)	
	year (MBq)	1997	1996	_1995	1994	
工-125	720	4	70			
C-14	72	2	0	- E		
		-				
Ť.						
		-			İ	
			†			
					-	

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Ac	tual release p	er year (MBq)
_	year (MBq)	1997	1996	1995	1994
		-			
			1	1	

Site name and location:	agravo UK Cottenhan, Cambridge	Site ref: Grid ref:	?	CAM (approx Ti	
1 Discharge	to sewer				(154)

Flow from premises (per month):

Name of sewage works:

N/A

Nuclide	Authorised release per	Actual release per year (MBq)			1)
	year (MBq)	1997	1996	1995	1994
					<u> </u>
		_			
			-		

2.	Discharge	to atmo	sphere

Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Ac)		
	year (MBq)	1997	1996	1995	1994
C-14	182-5	0	0	0	

Site name AI Qualitak htd Site ref: 15 CAM and location: Parpirford, Cambridge Grid ref: Ti 488 480

1. Discharge to sewer

Flow from premises (per month):

NA

Name of sewage works:

Nuclide	Authorised	Actual release per year (MBq)			
	release per year (MBq)	1997	1996	1995	1994
. ==	 	<u>.</u>			

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

release po	Authorised	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
	 				·	
			-			

3. Comments: authorised only for transfer of solid wester

Site name acio genetico Site ref: 16 CAM and location: Babralam, Grid ref: ? (affroi TL 51 50)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Milton STO (piped from Babralam)

Nuclide	Authorised Actual release per year (MBq) release per					
	year (MBq)	_1997 * -	1996	1995	1994	
T-125	120	0	_	-		
C+-51	180	10-8	-	_		
H-3	240	11.2	_			
P-32/P-33	720	0	0.45	74.0		
(intellar)	•					
(intellat) 5-35	180	44.6	49.1	<u> </u>		
_						

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
	}					

3. Comments: * Partie year only
no RSA3 found

Site name British Gas Site ref: 17 CAM and location: neuton, Disheck Grid ref: T= 456 139

1. Discharge to sewer

Flow from premises (per month): N/A

Name of sewage works:

Nuclide	Authorised release per	Ac	er year (MB	q)	
	year (MBq)	1997	1996	1995	1994
17	1840				
_			94		
			ļ		

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
		4				
i i						

3. Comments: Outhorized only for transfer of solid wastes

Site name Cambridge antibody Tach Site ref: 18 CAM and location: malbourn, houston Grid ref: 71 392 455

1. Discharge to sewer

Flow from premises (per month): 130 m³
Name of sewage works: Melbour 5700

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
5-35	838		С	0		
P-32	uut	-	0	•		
I-125	120	12.7.	20.5	1.9		
				-		
				_		
1						
140						
	•					
·		- 1 -				
					1	

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
	ļ					
	 					

Site name Cambridge Secentific Site ref: 19 CAM and location: Ditchford, Ely Grid ref: The 499 795

1. Discharge to sewer

Flow from premises (per month):

NA

Name of sewage works:

release per year (MBq) 1997 1996 1995	
	1994
	-

2. Discharge to atmosphere

~ .		•	•	• .	
Sta	A	D 4		-	•

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
						
					·	
	•					
			<u> </u>			

3. Comments: Outhorised only for transfer of waster

Site name Cartal Pharmaceticals and location:

Site ref: 20 CAM

Grid ref: TL 468 616

1. Discharge to sewer

Flow from premises (per month): 250 m²

Name of sewage works:

whindge STD, Couley Road (Ossume)

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
C+-51	13,300	4 202	2819	2438		
C-14/H-3	8 880	916*	1031*	918*		
(total)						
5-35	4,440	248	365	793		
P-32	1800	281	216	173		
P-33	1.900	0	0	16		
エ-125	444	0	0	_	_	
Other except	444	0	0	. 🗕		
sible (total)						
					<u> </u>	
j						

2. Discharge to atmosphere

Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Act	r year (MBq	ear (MBq)		
	year (MBq)	1997	1996	1995	1994	

Site name Chiroscience htd Site ref: 21 CAM and location: milton Road, Grid ref: The 464 620

1. Discharge to sewer

Flow from premises (per month): 71 m³

Name of sewage works: milton STW, Cantinge

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
14-3	1920	170	166	161	
C+-51	480			-	
S-35	420	33	31	12	
P-32	216	c-9	0.27	-	
P-33	108	-	_	- 2:	
C-14	72	0	0	7.0	
工-125	6	l.j	-	11.	
			- 7.1		
		 .			
<u> </u>		 			
•					- · ·

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised Actual release per year release per			er year (MBq)
	year (MBq)	1997	1995	1994	
			* 1		
	<u>l </u>		<u> </u>		

Site name Dalquery Food htd Site ref: 22 CAM and location: Station Road, Grid ref: 72 461 571

1. Discharge to sewer

Flow from premises (per month): 480 m3

Name of sewage works: Comlang Road STW, Cambridge

Nuclide	Authorised release per	Ac	tual release p	er year (MB	q)
2 °	year (MBq)	1997	1996	1995	1994
C-14	444		D	0	
4-3	444		0	<u> </u>	
P-32	ill		0	0	
5-35	111		0	0	
-		_			
-					
		<u> </u>			
- 30					

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
]					

Site name General Rosanch Ltd. Site ref: 23 CAM and location: Hinaton, Saffran Grid ref: Th 498 450 Walden

1. Discharge to sewer

Flow from premises (per month): 360 m³

Great Chesterford Name of sewage works:

Nuclide	Authorised release per	Ac	tual release	per year (MB	q)
	year (MBq)	1997	1996	1995	1994
P-32	5 280	3260	2580	2250	
5-35	4.080	137	136	110	
P-33	2,640	4	0	0	
				 	
		-		· · · · · · · · · · · · · · · · · · ·	
		·			
	2.0				
					1

2. Discharge to atmosphere

Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural laud:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
<u> </u>					
 	-				

Site name Hexagon Technology Site ref: 24 CAM and location: Wilton Look, Grid ref: 71 466 617

1. Discharge to sewer

Flow from premises (per month): 125 m³

Name of sewage works: Cambridge STD, Couley Road

Nuclide	Authorised release per	Actual release per year (MBq)			
,	year (MBq)	1997	1996	1995	1994
P-32	2 400	2.2			
P-33	600	0			
5-35	600	0			
Otherexcept	600	0			
elpha (total)					
(4.1)					
			 .		
			<u> </u>		

2. Discharge to atmosphere

Stack height:

H/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Authorised release per	Actual release per year (MBq)				
year (MBq)	1997	1996	1995	1994	
	release per	release per	release per	release per	

Site name Hinchingbrooks Health Site ref: 25 CAM and location: Hinchingbrooks Health Grid ref: 7 226 720 (153)

1. Discharge to sewer

Flow from premises (per month): 5, 600 m³
Name of sewage works: Huntingdon 570 Godmanlate

Nuclide	Authorised					
,0_	release per year (MBq)	1997	1996	1995	1994	
Tc-99m	360,000	101,000	98,390			
I-131	3600		0			
P-32	1200					
工-125	0	i.5	1.9			
Other except	4800	8	5_			
alpha (total)				_		
	· · · · · · · · · · · · · · · · · · ·					
*						
					· 	
						
-	-					

2. Discharge to atmosphere

Stack height:

(tract rent)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

	Authorised release per	Ac	1)		
	year (MBq)	1997	1996	1995	1994
Tc-99m	10	2.3	2.3		
		<u> </u>			

Site name Honoraing Forence Let. Site ref: 26 CAM and location: Fortham, Ely Grid ref: 72 633 687

1. Discharge to sewer

Flow from premises (per month): 200 m³

Name of sewage works: ne ket 570

Nuclide	Authorised Actual release per year (MBq) release per				
	year (MBq)	1997	1996	1995	1994
H-3, C-14	600	12			
(tale)				C H	
5-35 . P-32	600	0			
P-33 / Hotel					
T-125	12	0.5			<u>-</u>
	100				
			ΞE		

2. Discharge to atmosphere

Stack height: N/F

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
<u>-</u>	year (MBq)	1997	1996	1995	1994		

Site name Huntingdon hise Secretes Site ref: 27 CAM and location: alcohom, Huntingdon Grid ref: Th 188 743

1. Discharge to sewer

Flow from premises (per month): 9,000 m3

Name of sewage works: One some testment works * } sheet \$

Nuclide	Authorised release per	oer year (MBq	q)		
	year (MBq)	1997	1996	1995	1994
2-14, H-3	120,000	23.800			
(total)					
Otterament	4800	0.(* 1	
alpha (total)					
	*	1.401			-
8					
		<u> </u>			

2. Discharge to atmosphere

Stack height: ? (bulding went though absorption traps?)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actı	er year (MBq)	
	year (MBq)	1997	1996	1995	1994
C-14, H-3 (tetal)	10,000	1.098 **			
(total)		,			<u> </u>
					+

3. Comments: * Drelinges to Cock Brook, landing 5.

Mattlems Brook at perimeter of site.

See september short for memorator.

** not clear whather this melides incinerator.

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name Huntington hife Sciences Site ref: 27 CAM and location: Obsorbing, Huntington Grid ref: -TL 188 743 (142)
Type of incinerator: R. Jenkins System type C550P with afterbu	~~
Stools heights 3 o	

Stack height: 30 m

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land

Nuclide	Authorised disposal per year					Estimated release per year (MBq)		
	(MBq)*	1997	1996	1995	1994			
C-14, H-3	484,200					484,200		
(telal)					ļ			
Ottar except	156					156		
alpha (tate)					<u> </u>			
5-35	2400					2 400		
						<u> </u>		
					ļ <u>.</u>			
					<u> </u>			
					•			
						•		

Partition factors: 1002 & atmosphere for all mulides

Comments: & Suche organic liquide and solida

Site name Smutran htd and location: Trumpington Road,

Site ref: 28 CAM Grid ref: 72452564

1. Discharge to sewer

Flow from premises (per month):

50 m3

Name of sewage works:

William Stres

Nuclide	Authorised release per				1)
	year (MBq)	1997	1996	1995	1994
9-35	888	_	19		
4-3	888	_	28	34	
C+-51	543	352	228	298	
T-125	558	5c	14	63	
P-32	588	556	485	367	
				3+/-	
-					

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	

Site name Inst. Tarestral Ecology Site ref: 29 CAM and location: Alberta Ripton, Grid ref: Th 201 798

1. Discharge to sewer

Flow from premises (per month): 300 m³

Name of sewage works: own remove trading plant * sheet sty

Nuclide	Authorised Actual release per year (MBq) release per				
a	year (MBq)	1997	1996	1995	1994
T-125	24				
T-125 C-14	6				_
H-3	2.4				
14.1					
					
			 	=	
	-				
			 		

2. Discharge to atmosphere

Stack height: $N = \int A$

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
<u> </u>	 						
	4						

3. Comments: * Dicharge to Ewingarode Steam at TL 201 798

Site name LGC Clinical Lab. Site ref: 30 CAM and location: Willow Local, Grid ref: TL 262 618

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works: with hand 5700 (arrand)

Nuclide	Authorised Actual release per year (MBq) release per				
C a 1	year (MBq)	1997	1996	1995	1994
I-125	480				_
I-125 Co-57	4.8				
_					
				-	
-					
		-			
					-

2. Discharge to atmosphere

Stack height:

NJA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
<u> </u>			<u> </u>			
					114	

3	C	m	m	en	te:	
J.		, LI	1111	СЦ	LD.	

no RSA3 found

Site name Marchall of Canhadge Site ref: (TL 49 59) and location: Grid ref:

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

N/A

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
			4		
	 				
-		<u>-</u>			
·· ····· -··	 	=			
		-			

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Authorised release per year (MBq)	Actual release per year (MBq)			
	1997	1996	1995	1994
	<u> </u>			
	release per	release per	release per	release per

Site name	MRC
and location:	Hills hood,

Site ref: 32 CAM

Grid ref: 1 467 553

1. Discharge to sewer

Flow from premises (per month):

N/A

Name of sewage works:

Nuclide	Authorised Actual release per year (MBq)				q)
	release per year (MBq)	1997	1996	1995	1994
					(4)
		 			
			 		
*		-			
			4.		
				_	
				·	

2. Discharge to atmosphere

Stack	height:
Juck	ucigut.

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
					ī.

3.Comments:

authornation revokal - see site sef. 34 CAN

Site name MRC Strangerers Res. Lat. Site ref: 33 CAM and location: world Causerers, Grid ref: 1 (approximately)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Cambridge STW (simul)

Nuclide	Authorised Actual release per year (MBq) release per				
	year (MBq)	1997	1996	1995	1994
H-3	6.000	199	32	१०	
Elter except	20,400	846	685	913	
alika (total)					
1		•			
		<u></u>			i
-					
-		÷	 	-	<u> </u>
1			1		
			1		
			 		

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

1	Authorised release per year (MBq)	Actual release per year (MBq)			
		1997	1996	1995	1994
<u> </u>	 				3.5
	 				
					_

3.Comments:

No RSA3 found.

Site name

MRC Centre

Site ref: 34 CAM

and location:

Hills hours,

Grid ref: TL 467 553

1. Discharge to sewer

Flow from premises (per month): 1,500 m

Name of sewage works:

Nuclide	Authorised Actual release per year (MBq)			q)	
	release per year (MBq)	1997	1996	1995	1994
H-3	48,000				
P-32	12,000				
5-35	12.000				
C-14	12,000				
工-125	9,000				<u></u>
C+-51	1,200				
Cl-36	1.200				
Ca-45	1200				
P-33	480				
Ottorszapt	6.000				
ella (total)	1				
,					
-					

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per year (MBq)	Actual release per year (MBq)			
		1997	1996	1995	1994
		ν.			
	4			_	l

Site name MRC Dunn Nutrition Centre Site ref: 35 CAM and location: million Road . Grid ref: ? (approx TL 46 62).

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Combridge STO (comment)

Nuclide	Authorised release per				q)
	year (MBq)	1997	1996	1995	1994
H -3	9.600	0_			
C-14	480	4.8	.0		
I-125	480	23	25.4		
Ott except	240	0-1	0-3		
alfre (total)			 		
					<u> </u>
			 		-
			 		
			1	·	-
			-		

2. Discharge to atmosphere

Stack height:

NJA

Distance and hearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
	 					

3.C	om	men	ts:

No RSA3 jourd

Site name MRC Human Genome Site ref: 36 CAM and location: Hinseton, Cambridge Grid ref: 76489 580

1. Discharge to sewer

Flow from premises (per month): 2,500 m²

Name of sewage works: Great Charterford, Cambridge

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	19 9 7	1996	1995	1994
P-32	6,660	_	8.5 +		
P-33	4,440		0.3		
5-35	4440		0		
	15				
					<u></u>
			<u> </u>		
			<u></u>		
		<u> </u>			

2. Discharge to atmosphere

Stack height: N A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
(1)	year (MBq)	1997	1996	1995	1994	
	 					
-						
					<u> </u>	

3. Comments: * year of discharge not socarded

Site name Napp Rose on Centre Site ref: 37 CAM and location: Millon Road, Central Grid ref: ? (approx Ti 46 62)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
anyesicapt	2,400	228	126_			
alpha (tite)						
,				120		
			ļ <u> </u>			
ļ —						
L						
		-				
ļ						
 						
3			!			

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	

3.Comments:

no RSA3 found

Site name NIAB and location: Huntingdon Road, Calmilge	Site ref: 38 CAM Grid ref: ? (appose TC 45 59)
1. Discharge to sewer	
Flow from premises (per month): Name of sewage works:	asto (arrund)

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
an except	852	152 -	29.3*			
eller (total)						
		-			<u> </u>	
					·	
				•		
	_					

2. Discharge to atmosphere

Stack height:

H A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Ac	tual release pe	al release per year (MBq)		
	year (MBq)	1997	1996	1995	1994	
			···			
			. <u> </u>			
					<u> </u>	

3. Comments: Listed as P-32, P-33, S-35
RSA3 met found

Site name Paparenth Haspital Site ref: 39 CAM and location: Paparenth Zurard, Grid ref: 7288 628 (153)

1. Discharge to sewer

Flow from premises (per month): 3,300 m³

Name of sewage works: Palmenth STW

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
Tc-99 m	300,000	185.000	188	177,600	
TL - 201	9 600	199	0	-	
Ga - 67	7.200	-	_0		
T~-111	1.800	58	23.6	30.6	
T - 123	720	-	0		
Otter except	4,800	3.9	0	2	
alpha (total)					

2. Discharge to atmosphere

Stack height: 3m (bulding extraction rystem) =

Distance and bearing to nearest residence: 30 m

Distance and bearing to nearest point of public access: 2 m

Distance and bearing to nearest agricultural land:

Nuclide Authorised release per year (MBq)		Actual release per year (MBq)				
	1997	1996	1995	1994		
Te-99x	40	1-2	1.4	1.6		
	 					
	 					
		 .				

3. Comments: - Patient archalation

Site name Porke-Dario Menoscience Site ref: 40 CAM and location: Hills Road, Contribute Grid ref: 7L 465 552 (addentosches Harpital)

1. Discharge to sewer

Flow from premises (per month): 29,000 m³ (tran hospitai)
Name of sewage works: Cambridge STD (arrand)

_ · · · · ·			1)	
year (MBq)	1997	1996 .	1995	1994
10,500		1171	1290	
3,540		45	156	
1.764		467	289	
888		353	310	
420		11	1.9	
420		0	0	
360		0	0	
	241	-		
		1.0		
	release per year (MBq) 10, 500 3,540 1,764 888 420	release per year (MBq) 1997 10, 500 3,540 1,764 888 420 420 360	release per year (MBq) 1997 1996 10, 500 1171 3,540 45 1,764 467 888 353 420 11 420 0	release per year (MBq) 1997 1996 1995 10, 500 1171 1290 3 540 45 156 1,764 467 289 8 3 353 310 4 20 11 1.9 4 20 0 0

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
4						
		····				

Site name Ponke Davis Manoscience Site res: 41 CAM and location: Cambridge Univ., Forvie Grid res: 74 466 548 rite, Robinson Day, Camb.

1. Discharge to sewer

Flow from premises (per month):

HOO m3

Name of sewage works:

Cantribe STC

Authorised release per				
year (MBq)	1997	1996	1995	1994
10, 500	347			
3 540	9.2			
2, 100	277			
1.764	202			
1332	495			_
420	0	2.93		
360	4.8			
		1.		
				-
	release per year (MBq) 10, 500 3 540 2, 100 1,764 1332 420	release per year (MBq) 1997 10, 500 347 3 540 9.2 2, 100 2.77 1,764 202 1332 4.95 420 0	release per year (MBq) 1997 1996 10, 500 347 3 540 9.2 2, 100 2.77 1,764 202 1332 4.95	release per year (MBq) 1997 1996 1995 10, 500 347 3 540 9.2 2, 100 2.77 1,764 202 1332 4.95

2. Discharge to atmosphere

Stack beight:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Ac	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994		

Site name Peptide Therapeutis its Site ref: 42 CAM and location: William Road, Cambridge Grid ref: Tim 462 618

1. Discharge to sewer

Flow from premises (per month): 100 m³

Name of sewage works: Milton STW

Nuclide	Authorised release per	Ac	tual release _l	per year (MB	q)
	year (MBq)	1997	1996	1995	1994
14-3	8,880	144			
P-33	8 880	214		_	
C-14	4,440	0			
5-35	4.440	26			
P-32	4 440	13			
C+-51	ند پريره	0			
I-125	ريأ بيرين	25			
			- \$4		
· 					

2. Discharge to atmosphere

Stack height: 20 m

Distance and bearing to nearest residence: 500 m

Distance and bearing to nearest point of public access: 20 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
I-125	450	0			
ļ					
 					

Site name Peterborough Hospital Site ref: 43 CAM and location: Thompse Roll, Grid ref: 71 175 988

1. Discharge to sewer

Flow from premises (per month): 6,500 m3

Name of sewage works: Flagter, Peterborong

Nuclide	Authorised release per					
	year (MBq)	1997	1996	1995	1994	
Tc-99 m	360,000			153,800	15300	
I - 131	24.000			_	-	
P-32	4 800			-	+	
I-123	3 600	<u>.</u>		11(1=	
T-125	480			302	148	
otherexecist	3.600			103	16	
ille (total)						
		<u>_</u>				
		<u> </u>				
	de l					
					•	

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nnclide	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994	
15					<u> </u>	

3. Comments: Taga aerial desilages not authorised

Site name Plant breading Southtute Site ref: 44 CAM and location: To Grid ref:

1. Discharge to sewer

Flow from premises (per month): 1,500 m³

Name of sewage works:

Nuclide	Authorised Actual release per year (MBq) release per				
	year (MBq)	1997	1996	1995	1994
P-32	2 400	642	910	865	
P-33	1200	173	33	9	
<u>S-35</u>	1,200	0	6	フ	
<u> </u>					

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
	 					
						

3.Comments:

RSA3 wt to

Site name and and Holdings Site ref: 45 CAM and location: Maris Lana, Tempington Grid ref: The 443 545

1. Discharge to sewer

Flow from premises (per month): 1,960 m³.

Name of sewage works: Carbinder STW, Carbey Road

Nuclide Anthorised release per year (MBq)
release per year (MBq)
1997
1996
1995
1994

C-14, H-3
7 200
(C-12)
T-125
4 800
other accept 12,000
alph (tital)

2. Discharge to atmosphere

Stack height: N ∫ A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	

Site name SCL Browne	Site ref: 6 CAM	
and location: Milton hoad,	Grid ref: ? (approx TL 465 6	2

1. Discharge to sewer

Flow from premises (per month): 120 m³

Name of sewage works:

Nuclide	Authorised release per	tual release	ual release per year (MBq)		
	year (MBq)	1997	1996	1995	1994
I-125	480	190	182	238	
Cp-57	4.8	3.€	3.0	2-4-	
			1		· · · <u> </u>
-		<u> </u>			

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	- · · · · · · · · · · · · · · · · · · ·				
	year (MBq)	1997	1996	1995	1994	
ļ						

Site name The Babrahan Anstitute Site ref: 47 CAM and location: Babraham, Cambridge Grid ref: The 511 506 (154)

1. Discharge to sewer

Flow from premises (per month): 7,500 m³
Name of sewage works: Own reverse treatment flant *) sheet to

Nuclide	Authorised release per	Ac	tual release p	er year (MBq)
	year (MBq)	1997	1996	1995	1994
H-3, C-14	4,440	216	612	297	
(total)			35-	5-9	
Ottar ar count	8,880	1,035	1,615**	2077	
			0.6.		
			:		

2. Discharge to atmosphere

Stack height: N/A (ree-re-formte shoot for memorator)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (I)
	year (MBq)	1997	1996	1995	1994
		19			

3. Comments: * Discharges to Granta (R. Cam catellicat)

X* Mainly G-51, P-32, S-35

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name The Babraham Switchte	Site ref: 47 CAM
and location: Babraham, Cantella	Grid ref: TL 511 506 (154)
Type of incinerator: Zons Umais.	I 48 automatic with afterburner

Stack height: 13m

Distance and bearing to nearest residence: 400 m

Distance and bearing to nearest point of public access: 50 m

Distance and bearing to nearest agricultural land

Nuclide	Authorised disposal per year	Actual disposal per year (MBq)			Estimated release per year (MBq)	
	(MBq)	1997	1996	1995	1994	
41-3, C-14	6000					6,000
(total)					<u> </u>	* *
I-125	440					4.440
P-32	2400				<u> </u>	2 400
5-35	2 400		_			2400
C+-51	1,200					1200
other agent	1320			· ···		1320
alpha (total)						
,						
					<u> </u>	
*						
						uid)"

Partition factors:	1002 =	atmosphere	pro all	nuclide
Partition factors:	1005 =	atmosphere	pe all	nucli

Site name Throughberd Breadows Site ref: 48 CAM (?)
and location: Newmorket, I folk Grid ref: ? (approx Ti 64 64)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

N/A

Nuclide	Authorised release per	1			q)
	year (MBq)	1997	1996	1995	1994
					_4
				- ÷	
			:		1
					-
			- "	 -	
		1.0	· · · · · · · · · · · · · · · · · · ·		
					·-
	<u> </u>				
			- 1		
	 				

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
					
			1		
L			<u> </u>		

3.Comments:	ESA3 and found	
	authoristion for	

ASSESSMENT DATA: DISPOSAL TO LANDFILL

Site name U. of Cambridge Site ref: 49 CAM

and location: Warte Istore, Madingley Grid ref: ? (approx. Ti 425 592)

Road Cambridge

Landfill name milton handfile and location: Grid ref: Th 467 625

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised disposal per	Actual disposal per year (MBq)			
	year (MBq)	1997	1996	1995	1994
H-3 C-14	7,200	2060	3,656	5, 435	3,227
(total)					
Other excelet	19,200	1,689	1746	1,675	2.670
alpha (2100					
days		<u> </u>			
Other except	1.848	185	240	214	38
: Upla (> 100				<u> </u>	
days)					
			<u> </u>		
				d -	
			ļ <u> </u>	<u> </u>	
					ļ

Comments: Includes organic liquids and rollid wantes
from central Darte Stare — not central whether
wantes from other operators go to same landfill.

See file for DOE letter or redifficient inpart
of landfile (51 CAM).

Site name V. of Cambridge Site ref: 49 CAM and location: Warte Istore, Madurgley Grid ref: (apprenting 592

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

N/A

Nuclide	Authorised Actual release per year (MBe release per				q)
	year (MBq)	1997	1996	1995	1994
				10	
- 8					
,					
-					4
			1		

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Nuclide Authorised release per year (MBq)	Actual release per year (MBq)			
		1997	1996	1995	1994
-					
					_

3. Comments: In reporte sheet per disposed to landfill

Site name U. of Cambridge Site ref: 50 CAM and location: addenbrookes Horp

In Grid ref: - 466 552 Hills Road, Cambi

1. Discharge to sewer

Flow from premises (per month): 3,716 m³ (main sate + tomic site)

Name of sewage works: million STW

Nuclide	Authorised release per	Actual release per year (MBq)				
_	year (MBq)	1997	1996	1995	1994	
14-3	30 000	3308	1,222	1519		
C-14	900	339	78	51		
Ottorecabit	93,600	16,241	16,830	21.793		
alpha (tatal)				Let		
					·	
		190				
			-			

2. Discharge to atmosphere

Stack height: 20 m

Distance and bearing to nearest residence: 75 m

Distance and bearing to nearest point of public access: 20 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
_	year (MBq)	1997	1996	1995	1994	
H-3	3.700					

Includes defeatments at Oddenbrooken Hos

Site name U. of Cambridge Site ref: 51 CAM and location: Cantral Sile Promises, Grid ref: (various)*

1. Discharge to sewer

Flow from premises (per month): 36,974 m³

Name of sewage works:

Wilton 5720

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
H-3	1,200000	25.606	41,187	13,966	13 181	
5-35	48,000	5.608	6,440	7076	7040	
I-125	18,000	115	168	492	426	
C-14	4.800	759	440	464	480	
Otter except	102 000	14, 165	12902	17.007	13.580	
alpha (total)						
10'4						

2. Discharge to atmosphere

Stack height: 30 m **

Distance and bearing to nearest residence: 80 m

Distance and bearing to nearest point of public access: 30 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per year (MBq)	Actual release per year (MBq)				
1 1		1997	1996	1995	1994	
i+-3	29,600	_	0	-	i 6_	
Xe-133	10,000	9.2	0	3,470	4,830	

3. Comments: * Inter liste in authorisation

** not close which inter discharges to atmosphere

Site name V. of Cambridge Site ref: 52 CAM and location: West Sites, Grid ref: (various)*

1. Discharge to sewer

Flow from premises (per month): 5,390 m³

Name of sewage works: milk

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
14-3	6.660	899	756	135		
C-14	888	_	_	11 1 2 1 1		
Other except	13,200	1430	i488	314		
alpla (total)						
				<u> </u>		
			 			
			 			
			<u> </u>			

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	

3. Comments: * San listed premies

Site name U. of Cambridge Site ref: and location: Dept. of Zoology, Grid ref:

Site ref: 53 CAM

and location: Dept. of Zoologs, Madingley, Canbridge

TL 397 605

1. Discharge to sewer

Flow from premises (per month):

100 m

Name of sewage works: Utons Prove, Lobridge

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
4-3 , C-14	360	0	0	0	0	
(telai)						
Otter except	28.8	0	0	0	0.6*	
alika (titel)						
				·	<u></u>	
		. <u></u> -				
			-			
			- 7			

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
	1				. <u></u>		

3. Comments: x I-125 only

Site name Wolfron Brain Amaging Site ref: 54 CAM and location: addenbrookes NHS Timb, Grid ref: The 466 552 ifills hand, Cambridge

1. Discharge to sewer

Flow from premises (per month): 30,000 m³

Name of sewage works: Wilten STW

Nuclide	Authorised release per	Ac	Actual release per year (MBq)					
	vear (MBa)	1997	1996	1995	1994			
F-18 *	43,200		0					
F-18 *	4.8		Ð					
			24					
				<u> </u>				

2. Discharge to atmosphere

Stack height: 33m

Distance and bearing to nearest residence: Hoom

Distance and bearing to nearest point of public access: 50m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	1 7 - 17				
	year (MBq)	1997_	1996	1995	1994	
0-15	240		0			
					30	
	<u> </u>					

3. Comments: * Cycletron feeling discharge stack - vent to delay tank producing time delay of 34 mins. before discharge to stack (0-15 half-life 2 mins.) Dee note for assessment of dose.

**IL09 Discript F-18 110 mins: V-48 16 days

Site name agreero UK Site ref: 55 ESS
and location: Charterford, Soften Grid ref: Th 534 422 (154)

1. Discharge to sewer

Flow from premises (per month): 5, 400 m'

Name of sewage works: On sempe teatment plant *

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Nuclide	Authorised release per	Ac	Bq)		
	year (MBq)	1997	1996	1995	1994
C-14, H-3	22,200				1.36
(total)					
Otter except	1.332				0.001
alpha (total)					
					
					
		 	ļ		
					<u> </u>
•					
			ļ		
			<u> </u>		 _
			ļ .		

2. Discharge to atmosphere

Stack height: 13 m and ground surface

Distance and bearing to nearest residence: 200 - 350 m

Distance and bearing to nearest point of public access: 140 - 230 m

Distance and bearing to nearest agricultural land:

r	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994	
H-3	37 000				1	
C-14	3,700				0.7	
	 		· · · · · · · · · · · · · · · · · · ·			

3. Comments: * Dicharging Th. Cam via unmand steam at Th 5314 4237.

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name	agress UK	Site ref:	55	ESS		
and location:	Charterford, Soffon	Grid ref:	TL	534	422	(154)

Type of incinerator:

Stack height: 12 m

Distance and bearing to nearest residence: 60 m

Distance and bearing to nearest point of public access: \80 m

Distance and bearing to nearest agricultural land

Nuclide	Authorised disposal per year	Actua	Actual disposal per year (MBq)			
	(MBq)	1997	1996	1995	1994	year (MBq)
C-14 H-3	13,200					13, 200
(tale)					ļ	
OHerent	444				ļ <u>-</u>	444
alpha (total)				-		
						
					 	-
					+	
						+
·						
					-	
					 	
					†	
				_	-	<u> </u>

Partition factors: 100% to atmosphere per all mulides

Comments: Dicharge records for 1994 only - not certain whether refer to actual disposal or discharge to air.

Site name Bealdon & Thurrock Hospitel Site ref: 56 ESS and location: Baseldon, Same Grid ref: 70 701 872 (178)

1. Discharge to sewer

Flow from premises (per month): 12,665 m³

Name of sewage works:

Nuclide	Authorised release per	다른 그는				
	year (MBq)	1997	1996	1995	1994	
Tc-99 m	276,000		163,000		143,900	
Otherexcept	8 880		23		566	
aibha (tate)						
Y						
		1+0				
					*	

2. Discharge to atmosphere

Stack height: 8m (from patients)

Distance and bearing to nearest residence: 200

Distance and bearing to nearest point of public access: 7.5 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994_	
Xe-133	160,000		·		1	
Tc-99m	6,000		980		990	

3.Comments:

we of incincator consol Nov. 1995

Site name Coolers Refining and location: Harrich, Server	Site ref: 57 ESS Grid ref: TM 2232 SE- 622800 NS
1. Discharge to sewer	TM 2232 SE - 232100 EW
Flow from premises (per month): 25, 500 Name of sewage works:	

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
Po-210	5.096		1.02**			
					 	
						
					·	
		<u> </u>				

2. Discharge to atmosphere

Stack height: 25 m (neural stacks)

Distance and bearing to nearest residence: 750 m

Distance and bearing to nearest point of public access: 200 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
Pe-210	675		2.36		

3. Comments: * at TM 2232 62290 Ew.

TM 2232 232 695 NS?

** Estimated that most drops out in drawings system before reaching so

Site name Errer friend Health, Site ref: and location: Colcharter Heat lee, Grid ref: TL 9927

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised					
	release per year (MBq)	1997	1996	1995	1994	
Tc-99m	120,000		45 639	56,311		
TR - 201	3900		281	27		
Ga- 67	1800		132	0		
In-ill	1800		0	0		
Cr-51	900		f- 0	70		
I - 131	420		0	0		
P- 32	300		0	0		
Se-75	120		0	O		
54-89	120		0	0		
I- 125	60		0	1.2		
Fe - 59	60		0	0		
Co-57	60	2-00	0	0		
Co - 58	60		0	0		
V-90	24		0	0		
therecent	120	0-1	0	0		

2. Discharge to atmosphere

Stack height:

10 m (from patients) 300 m Distance and bearing to nearest residence:

75 ** Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Authorised release per year (MBq)	Actual release per year (MBq)				
	1997	1996	1995	1994	
1,750		894	890		
					
	release per year (MBq)	release per year (MBq) 1997	release per year (MBq) 1997 1996	release per year (MBq) 1997 1996 1995	

Site name Errae Luis Haalth Site ref: 59 ESS and location: Zream County Hospital, Grid ref: The 9824 heaten Rood, Colchester

1. Discharge to sewer

Flow from premises (per month): 4,000 m³

Name of sewage works:

Hoven STW

Nuclide	Authorised release per	A	per year (MBq)	
	year (MBq)	1997	1996	1995	1994
Tc-99m	240,000	:	143.169	139 304	
I-131	28,200		10,989	3 013	
P-32	3,000		183	54-	
Te - 201	3000		266	492	
St-89	2 400		450	4.2	
Cr-51	1,800		423	634	
Tn-111	1800		0	0	
Ga - 67	1200		265	126	
Se-75	180		1-6	1.9	
工-125	120		1.2	5.0	
Fe-39	60 _	-	0	۵	
Co-57	60		ن ب	i5 0	
Co-58	60		0.5	6.8	
V-90	60		٥	0	
Otheraccapt	120	-	Q	0	

alpha (total) 2. Discharge to atmosphere

Stack height: 5 m (from potients)

Distance and bearing to nearest residence:

50 M

Distance and bearing to nearest point of public access: (O m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	vear (MBq)	1997	1996	1995	1994	
Tc-99m	500		320	315		
						
				–		
 -					·	

Site name Mid Essac Hospitals Site ref: 60 ESS and location: Court Road, Chalmsford Grid ref: The 7010 (167)

1. Discharge to sewer

Flow from premises (per month): 4,180 m3

Name of sewage works:

Chelmond STO

Nuclide	Authorised release per	Actual release per year (MBq))
	year (MBq)	1997	1996	1995	1994
Tc-99m	300,000		111,364		
I-131	3,600		18		
I-125	600		228		
Other sucht	2 500		1,100		
alpha (total)					
					
				- 7	
					1.61
					

2. Discharge to atmosphere

? (putient and alation) Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994	
Tc-99m	1700		1,455			
		į.				

Site name Mobil Dil Co.	Site ref: 6 ESS
and location: Congran Refinery,	Grid ref: TQ 747 823

1. Discharge to sewer

Flow from premises (per month): 5.5 + 106 m³

Name of sewage works: 2.5 + 106 m³

Name of sewage works: 2.5 + 106 m³

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
					 .
<u> </u>					
		· •			
					
			- 0		
The	+				

2. Discharge to atmosphere

Stack height: 107 m or 61 m

Distance and bearing to nearest residence: 940 m

Distance and bearing to nearest point of public access: 570m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per year (MBq)	Actual release per year (MBq)				
		1997	1996	1995	1994	
	1		<u> </u>			

3.Comments:

authorization of available

Site name Nichola dustitute Site ref: 62 ESS

and location: Dallen, Erec Grid ref: TL 5521 2338

1. Discharge to sewer

Flow from premises (per month):

N/A

Name of sewage works:

Nuclide	Authorised release per				
	year (MBq)	1997	1996	1995	1994
				1.40	
	_		3		
	<u> </u>		 		- 1
	-				

2. Discharge to atmosphere

Stack height:

H A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per year (MBq)	Actual release per year (MBq)				
		1997	1996	1995	1994	
			_			

3.Comments:

authorial tramfor only

Poulene Agriculture Site ref: 63 ESS. anningter, Essan Grid ref: TM 099 305 Site name and location:

1. Discharge to sewer

Flow from premises (per month):

NIA

Name of sewage works:

Nuclide	Authorised	· · · · · · · · · · · · · · · · · · ·				
	release per year (MBq)	1997	1996	1995	1994	
		-			-	
	,					
	-					

2. Discharge to atmosphere

Stack height:

On

Respiration of plants

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
C-14	12,000		357		521	
	 		ļ · · · · · ·			

Site name Shell UK htd and location: Shell Haven Refiner, Stanford-le-Hope, S	Site ref: Grid ref:	64	ESS (appoint Q 76	32)
	- Sec			(178)
1. Discharge to sewer				'

Flow from premises (per month):

Name of sewage works:

Direct to R. Themas

Nuclide	Authorised release per					
	year (MBq)	1997_	1996	1995	1994	
Na-24/Br-82	88 800	Ð	0	0		
Mm-5/11-113						
La-luc						
(total)					ļ	
4-3	888,000	0	0		<u> </u>	
						
		•		· · · · · · · · · · · · · · · · · · ·		
					-	
<u>-</u>						
		•				
	<u> </u>					

2. Discharge to atmosphere

Stack height: 3\ m (minimum)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
H-3 KN-85	600,000	0	0	0_		
A+-41/						
B+ 52 X e+3	>					
(total)						

3.Comments:

RSA3 not found

Site name Southend Health Come and location: Sothand Hospital, Desteliff, Essace

Site ref: 65 ESS

Grid ref: To 864 873

1. Discharge to sewer

Flow from premises (per month): 5,519 m³

Name of sewage works:

Southern STW

Nuclide	Authorised	Ac	Actual release per year (MBq)			
	release per year (MBq)	1997	1996 *	1995	1994 *	
Tc-99m	480,000		233,873		145,000	
I-131	200.000		55 925		70,700	
Otton except	36,000		3,441		5.700	
alble (the)						
1						
					<u> </u>	
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					<u></u>	
			H	·		
					5	
		14				

2. Discharge to atmosphere

Stack height: Various (up to 15 m) _ see balons for routes

Distance and bearing to nearest residence: 150 m

Distance and bearing to nearest point of public access: 5-6

Distance and bearing to nearest agricultural land:

	Nuclide	Authorised release per	Actual release per year (MBq)				
		year (MBq)	1997	1996	1995	1994	
a)	Xe-133	215.000		0		0	
(ع	Xe -133	24,000		0		Ð	
-	Tc -99 m	6,000		1.344		۵	
-)	C-14. H-3	1.000		1.5		1	
	(tetal)						

Route (a) 15 m above good 3.Comments: " (4) hoom autoseta fano " (c) Hospilar vent. system * not complete you

Site ref: 66 ESS Grid ref: ? (appear. TMO28 238) and location:

1. Discharge to sewer

Flow from premises (per month): 18,000 m

Name of sewage works:

Nuclide.	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
H-3	24,000		274		200	
Other except	24 000		616		1268	
alple (total)						
, ,					<u> </u>	
					ļ	
				···		
				19*/		
				<u></u>		
			<u> </u>			

2. Discharge to atmosphere

Stack height: Varion (15-30m)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per		Actual release pe	er year (MBq)		
	year (MBq)	1997	1996	1995	1994	
4-3	100		9 92 2		7 95 >	
T99	1.2		-			
						
			1		<u></u>	

See separte show RSA3 not found.

ASSESSMENT DATA: DISPOSAL BY INCINERATION

and location: Colchester Grid ref:	
Type of incinerator: I names fresteam F3:	5 with afterburner
Stack height: 12 m	
Distance and bearing to nearest residence:	? .

Distance and bearing to nearest agricultural land

Distance and bearing to nearest point of public access:

Nuclide	Authorised disposal	Actual disposal per year (MBq)				Estimated release per	
	per year (MBq)	1997	1996	1995	1994	year (MBq)	
alpha	444 *					444	
(Total)							
· · · · · · · · · · · · · · · · · · ·							
						Y	

Partition factors: 1002 to atmosphere paralle mulides

Comments: * organic and solid wastes

RSA3 met found

Site name Site ref: 67 HUM Grid ref: TA and location: 15870 -16 750 1. Discharge to sewer

Flow from premises (per month): 360,000 m Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
B+-82	177 600					
Tn-113m	192 000		9			
Na - 24	88,800			171		
Mm-56	22, 200					
H-3	1.800,000					
Te-99 m	2,400,000			4		
othorought	120.000				W. 3	
alpha (-)	,					
1 ()		•				
		<u> </u>		(4)		

2. Discharge to atmosphere

Stack height: Various (13 x 5 2100x)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised	Ac	tual release per	al release per year (MBq)		
	release per year (MBq)	1997	1996	1995	1994	
4-3	300 000					
Kr-85	900,000					
K+-79	148,000					
A-41	400,000					
Ottor exicalst	32,000					
alpha (-)						

Site name	hindren	où	Rafinan	Site ref:	68	MUH	
and location	1: gmming	han	, Grinshy	Grid ref:	TA	i 569	1755

1. Discharge to sewer

Flow from premises (per month): 180,000 m and plant Name of sewage works: Own effluent to true to blant to and and thunk

Nuclide	Authorised release per	Act	ual release p	oer year (MBo	1)
	year (MBq)	1997	1996	1995	1994
H-3	450.000				
In-113m	88.800				
B+-82	44.400				
Na-24	22,200				
Mn-56	22 200				
Mn-56 Ba-137m	22,200				
					ia.
			_		
		*			

2. Discharge to atmosphere

Stack height: various (91-132 m)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access: 200 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
K1-85	1,200,000					
Kr-79	450 000					
H-3	450,000					
La-140/Na-	2,220					

3.Comments:

Doe note for assersment of marine discharge

Site name Millenium Inorganic Site ref: 69 HUM and location: Grid ref: ? (approx. TA 2114)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works: Theat to River Humber

Nuclide	Authorised release per	Ac	tual release p	er year (MB	q)
	year (MBq)	1997	1996	1995	1994
All activity	(noe				
Ra-226	below			04.0	
h-232 et)	,				
					<u> </u>
		· - 			

2. Discharge to atmosphere

Stack beight:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)			
	year (MBq)	1997	1996	1995	1994
	9.				
	 				
		- 1			

3.Comments:

RSA3 not found Disposal limit 0.74 B2/9 - no limit to total activity by this route.

		morganic Month Hunbarite	Site ref: Grid ref:	70	? (wpporc. TA 2114))
--	--	--------------------------------	------------------------	----	---------------------	---

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Direct to Price Humber

Nuclide	Authorised release per	A	ctual release p	er year (MB	q)
	year (MBq)	1997	1996	1995	1994
	1				
			131		
				-	
		1	1		

2. Discharge to atmosphere

Stack height:

N /A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
-						

3.C	om	me	nts:
------------	----	----	------

Replaced by single authorisation (rae 69 HUM)

Site name North Eart hims NHS Site ref: 71 HUM and location: lynnishy Haspital, Grid ref: 7 (approx. TA 263 072)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works: Pyenipe? purping station (to Humber Estuary)

Nuclide	Authorised release per	Ac	tual release p	er year (MB	q)
	year (MBq)	1997	1996	1995	1994
Tc-99 m	360,000				
T- 131	24,000				
I-125	60				
Ott - except	24,000				
alpha (total)					
				<u> </u>	*
		·			

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Authorised release per	Act	Actual release per year (MBq)			
year (MBq)	1997	1996	1995	1994	
 					
	release per	release per	release per	release per	

3. Comments: RSA3 not found

Site name Conoco (UK) Ltd. Site ref: (4 - and location: The delethen pe, hinco. Grid ref: TF 4887 4987 (ATF 488 873?)

Flow from premises (per month): 66,000 m

Pipeline to sea (at TF 5056 8750) Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
Ra-226	9.000					
Ra - 228	9.000			,		
Ra-224	9 000		341			
PR-210	ಇ ರಕರ					
Bc-210	9 000					
Po-210	৭ ১৯০					
	-					

2. Discharge to atmosphere

N/A Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
			 !				
	<u> </u>						

3.Comments:

- note for assersment of dose

Site name Grantham & District Hospital Site ref: 73 LIN
and location: Grantham, himes. Grid ref: ? (appear. SK 913 368)

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
Tr-99 m	240,000					
I-123	6,000					
T - 131	1200					
T-125	ilex	-				
Otto account	16.800					
she (tetal)						
1 ' /						
					ļ	
,						
				<u>-</u>	<u> </u>	
		·		·		
				. <u></u>		
		-			<u> </u>	

2. Discharge to atmosphere

Stack height:

N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
							

3. Comments: RSA3 not found

Site name Lucoln a horth NHS Site ref: 74 LIN
and location: Dt. George's Hospitae, Grid ref: 7 (approx. SK 962 73

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works: Commick STW, hunerly (armund)

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997·	1996	1995	1994		
I-131	216,000		77				
Tc-99 m	36,000			1 0			
I-125	12						
P-32 Co.58	9.600						
Sa-75,5+.8		_					
Y-90(total)					_		
Other excelet	4,800				9.0		
alpha (tatal)							
				· -·			
					•		

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per year (MBq)	Actual release per year (MBq)				
		1997	1996	1995	1994	

3. Comments: RS A3 not found

Site name himselin K houth NHS Site ref: 75 LIN and location: County Hospital, Grid ref: 5K 988 718

1. Discharge to sewer

Flow from premises (per month): 6,000 m³

Name of sewage works: Camurick STW, Lund

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
Tc-99 m	300,000					
T - 125	240					
I-131	36,000					
I-123	7,200	- 				
Se-75	6					
TR-201	14,400					
	<u> </u>					
[211, Co-57 Co-58, Cr-51						
Bo-67 atter						
except alpha						
(total)						
1.0						

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:,

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
	 						

	Site ref: 76	
and location: Pignin Haspital,	Grid ref:	? (appen TF 034 00

1. Discharge to sewer

Flow from premises (per month):

Name of sewage works:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
Tc-99m	300 000						
I-131	9 600						
T-123	2 400				l 		
I-125	180						
Otheroxopt	12,000						
alpha (tate)	- E E E E E E E E E E E E E E E E E E E						
1 ,		· · ·					
			* * 1	· · · · · · · · · · · · · · · · · · ·			
					[
				.			

2. Discharge to atmosphere

Stack height: N/A

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
			<u> </u>			
				-	<u> </u>	
			-		<u> </u>	

3. Comments: RSA3 not found

Site name Birtish Sugar Fle. and location: named has Fork, Colony, named	Site ref: Grid ref:	77	NOF.	+ 183 0 82
--	------------------------	----	------	------------

Flow from premises (per month): 60 - 270 m³

Name of sewage works: whitlingham 5700 (assumed)

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
C-14, H-3	1,200		90				
(total)							
5-35	1,200		0				
P-32	600		0				
T-125	120		0				
Other except	600		_				
sible / Haver				7.			
		- 7					
			0.75		<u></u>		
					<u> </u>		
					_		

2. Discharge to atmosphere

Stack height:

NA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
					153.1		
					9-1-9		
-							
	-						

Site name suntitute of Ford horsonch Site ref: 78 NOF and location: Norwick Rais. Fink, Grid ref: 76 183 082 Colony house, norwick

1. Discharge to sewer

Flow from premises (per month):

500 - 2,000 m3

Name of sewage works:

Whitlingham STO

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
H-3 Other (total)	60,000					
Other	3 000		<u> </u>			
(total)						
	*					
			:		•	
	<u> </u>					
				-		
				_		
-		ā.				
<u> </u>			-			

2. Discharge to atmosphere

Stack height: 15 m

Distance and bearing to nearest residence:

125 m

Distance and bearing to nearest point of public access:

25 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
H-3	2,000						
C-14	20						

3.Comments:				2.5	
	San	عستنهد	shout	fac	menalos

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name Institute of Food Research Site ref: 78 NOF
Site name institute of Food Research Site ref: 78 NOF and location: non-ich Roo. Park, Grid ref: 76 183 082
Type of incinerator: Savoflane - Ciroldi Rom 90 oscillating kiln
Stack height: 10 m

Distance and bearing to nearest residence: 200 m

Distance and bearing to nearest point of public access: 25 m

Distance and bearing to nearest agricultural land

Nuclide	Authorised disposal per year	Actua	l disposal	Estimated release per year (MBq)		
7,000	(MBq)	1997	1996	1995	1994	
H-3.	1,200					1,200
C-14, 5-35						
(total)				·		
Others (tates)	12				<u> </u>	12
					<u> </u>	<u> </u>
					ļ <u> </u>	
			<u> </u>		<u> </u>	
					<u> </u>	_
						
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- -					 	
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	**				 	
				V	<u> </u>	

Partition factors: 1002 = atmosphere por all mulides

John Innes Centre Site ref: 79 NOF Site name and location: Nomile Ras. Park,

Grid ref: TG 1828 0752

1. Discharge to sewer

Flow from premises (per month): 4,660 m

Name of sewage works:

whitlingham sono

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	
H-3	120 000		240	700		
Mo-99/TE99x	24,000		0			
C-14	2,400		33	60		
P-32/P-33	96,000		7,900	6,800		
9-35	36,000		650	920		
	12 000		0	4		
Other except alpha (title)						
			ļ — I			
			<u> </u>			
	<u> </u>					

2. Discharge to atmosphere

Stack height: Various (10-22m)

Distance and bearing to nearest residence: 140 - 250 m

Distance and bearing to nearest point of public access: 50 - 220 =

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
H-3	200,000	1	0	_			
C-14	6,000		1	_			
Othercreat	1		0	-			
albha Hotal)							
		<u> </u>					
	<u> </u>		<u> </u>	<u> </u>			

Site name	Afolk Glege	Site ref:	98	SUF	
and location:	Ipanich	Grid ref:	?	(approx TM	, 17 44)

1. Discharge to sewer

Flow from premises (per month): 11, 760 m

Name of sewage works: Cliff Quan Spanil

Nuclide	Authorised release per	Actual release per year (MBq)					
100	_year (MBq)	1997	1996	1995	1994		
S+-90 and	96						
St-90 and other							
alpha (total)							
Other (bata)	962						
Other (bota)							
					1,6		
4							
					l		

2. Discharge to atmosphere

Stack height: 31 w

Distance and bearing to nearest residence: 400 m

Distance and bearing to nearest residence.

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)					
	year (MBq)	1997	1996	1995	1994		
all mulides	888						
all mulides							
alpha							
			ļ				

Site name I provide Hospital NHS Site ref: 99507 and location: Heath hoad, I provide Grid ref: TM 194 450

1. Discharge to sewer

Flow from premises (per month): 9,000 m³
Name of sewage works: Cliff Quay, Spanish

Nuclide	Authorised release per	Actual release per year (MBq)			year (MBq)	
	year (MBq)	1997	1996	1995	1994	
4-3	1,200			3-	-	
C-14	i 200		70	30	20	
Tc-99m	840,000		80,000	83,000	110,000	
I- 131	156 000		39 000	50,000	21,000	
Otheraubt	3 000		270	110	80	
aipla (tate)						
4			-			
				Q.		

2. Discharge to atmosphere

Stack height:

Distance and bearing to nearest residence: 70 m

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	A	ctual release p	er year (MBq)
	year (MBq)	1997	1996	1995	1994
Xe-133	100,000		84,000	79,000	84,000
			7 10		
				O.	
		<u> </u>		<u> </u>	

Site name

VCH hid. Site ref:

and location:

Brandon, Suffalk

Grid ref:

(144)

1. Discharge to sewer

Flow from premises (per month):

N/A

Name of sewage works:

Nuclide	Authorised release per	· · · · · · · · · · · · · · · · · · ·				
	year (MBq)	1997	1996	1995	1994	
	 					
					1.71	
				_		
	 					

2. Discharge to atmosphere

Stack height:

Distance and bearing to nearest residence:

180 m

Distance and bearing to nearest point of public access: 17 -

Distance and bearing to nearest agricultural land:

Г	Authorised					
	release per year (MBq)	1997	1996	1995	1994	
H-3	300,000			194,000	20.700	
		(4-)		14		
	 					

Site name wordle Storeys Plc. Site ref: 101 SUF and location: Bath Grid ref: TM 1070 3270

1. Discharge to sewer

Flow from premises (per month):

NA

Name of sewage works:

Nuclide	Authorised release per	Ac	tual release p	er year (MBo	1)
	year (MBq)	1997	1996	1995	1994
-					
					•
	 				

2. Discharge to atmosphere

Stack height:

NIA

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	Actual release per year (MBq)				
	year (MBq)	1997	1996	1995	1994	

3.	Co	m	m	SП	ts	:

Site name Dert Suffolk Horpitals Site ref: 102 SUF and location: W. Suffolk Horpital, Grid ref: 71 851 627

Bury St. Samuels

1. Discharge to sewer

Flow from premises (per month): 5,000 m

Name of sewage works: Bank St. Samuela STO

Nuclide	Authorised release per	Ac	tual release pe	er year (MB	q)
	year (MBq)	1997	1996	1995	1994
Tc-99-	240,000	117,000	101,000		4
I-131	36,000	-	74		
P-32	2,400	-			
other except	3 000	74 *	0.3		
علماء (المنافة	,				
		<u> </u>			
		 			
	.—				

2. Discharge to atmosphere

Stack height: 5 m (bulding extraction)

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access: 20 m

Distance and bearing to nearest agricultural land:

Nuclide	Authorised	Actual release per year (MBq)				
	release per year (MBq)	1997	1996	1995	1994	
Tc-99 m	10	0.06	0.14			

3. Comments: + Tl-201, Co-57, Co-58.

Site name white hore Environment	tal Site ref:	103 50	=
and location: I pariel Horpital,	Grid ref:	TM 194	448

1. Discharge to sewer

Flow from premises (per month): 900 m from White how plus 10, 800 m from Name of sewage works: Cliff Queny, Spronich (arrund)

Nuclide	Authorised release per	Ac	tual release p	oer year (MBo	ı)
	year (MBq)	1997	1996	1995	1994
ing except	120 *				
Ilah (tital)	K 1 II				
		<u> </u>			
					_
_					
				•	

2. Discharge to atmosphere

Stack height:

Distance and bearing to nearest residence:

Distance and bearing to nearest point of public access:

Distance and bearing to nearest agricultural land:

Nuclide	Authorised release per	1			
	year (MBq)	1997	1996	1995	1994
	9- xe-	t she	t be in	ineste	

3. Comments: + Burnerate Sin vashings

ASSESSMENT DATA: DISPOSAL BY INCINERATION

Site name White hose Environmental Site ref: 103 =	ラジ ド
and location: I price Hospital, Grid ref: TM 19	4 448
Type of incinerator: 9_ warnesse multihearth	ite line /
Stack height: 48 m	

Distance and bearing to nearest residence: 110 -

Distance and bearing to nearest point of public access: 30n

Distance and bearing to nearest agricultural land

Nuclide	Authorised disposal per year	Actual disposal per year (MBq)				Estimated release per year (MBq)
	(MBq)	1997	1996	1995	1994	
H-3.C-14	66,000		2.5			66,000
(total)		·			<u> </u>	
Other except	10,200		35	*		10,200
alpha (total)						
Todine (total	12.000		215			12,000
						-4
			İ	_	<u> </u>	
		· - ·				

Partition factors:	100.4	4	atmosphe	proll	mulidas
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Comments:

APPENDIX C

COMPILED DATA ON SEWAGE TREATMENT PLANTS

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Plant name	Basildon STW	Site ref:	7
and location:	Essea	Grid ref:	

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Authorised		Actual input per year (MBq)			
		1997	1996	1995	1994
276	,000		163 000		143.900
. 8	580		23		566
					
			 +		
	Ĭ.	(4)			
		·· ·	+		
					•
			 		ļ
					
<u> </u>					
ļ			- 		
	input (N	Authorised input per year (MBq) 276,000 SSSS	input per year (MBq) 1997 276,000 \$ 580	input per year (MBq) 1997 1996 276,000 163 000 \$ 580 23	input per year (MBq) 1997 1996 1995 276,000 163 000 23 23

Comments:

Plant name Both STW Site ref: and location: Mandon Lane, Grid ref:

Discharge to: R. Grant one Location: The 583 495 (grid ref)

Vol. flow (raw sewage) into plant: 35,000 m3/d

Vol. flow out from plant: 35,000 m3/d

Vol. flow of river/estuary at discharge point: [33002] 10.2 m3/s

1956 Type of plant:

Production rate of sludge: 67,500 m³/7

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year				
	(MBq)	1997	1996	1995	1994
Te-99 .	286,000	110 000	130 000		
TR-201	7,200	66	89		
Ga- 67	3 600	110	92		
T - 123	2400	0_	0		<u></u> _
I - 131	800	0	670		
In-111	1.776	C	c	Let	
C+-51	\$40	_ 0	C		
I-125	36	0_	0		
Ce -5)	12_	0.07	0.37		
Other such	1,200	0.1	0.56		<u> </u>
ilfl. /ttel					
			<u> </u>		
			<u> </u>		
			1I		

Comments:

Plant name	Doston STW		Site ref	1	,	
and location:	himes		Grid re	f:	•	
Discharge to:	R. withan		Locatio (grid re	n: ~ ~ N	TF 32	44
Vol. flow (raw	sewage) into plant:	10,	0 0 0 1	4 3/d		
Vol. flow out f	rom plant:	10,	30002	1/4		
Vol. flow of riv	ver/estuary at discharge	point:	3000 2 3000 2 3000 1 3000 6 3000 3	4	.892	m 3/2
Type of plant:			30003	1		

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MB		q)	
	(MBq)	1997	1996	1995	1994
Tc-99 m	300,000				
I-131	9.600		6)		•
T-123	2,400				3
I - 125	180				
the energh	12,000				
offer (+stal)					
,					
		1411			
					100
					1.41
-	_			-	

Comments: 76 LIN

Site ref: and location: near Katteri Grid ref:

Location: 5P 939 688 Discharge to: R. Nene

(grid ref)

Vol. flow (raw sewage) into plant: 46,500 m3/d

Vol. flow out from plant: 46,500 m³/d

Vol. flow of river/estuary at discharge point: 32004

Type of plant: 32007 Type of plant:

Production rate of sludge: 78,750 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)				
	(MBq)	1997	1996	1995	1994	
P-32	2,400			_	0.(
C+-51	36			2	0-1	
Ce -57	6			c · t	0-(
Co - 58	3			0.2	0.(
Gra - 67	3,600				-	
Tc-99 m	240,000			142,000	129 600	
T-123	6,000			160	56	
I-125	340			102	95	
Te-201	6,800			282	199	

Comments:

Plant name Bury St. Edmunds* stand location: Suffelt	Site ref: Grid ref:	
Discharge to: R. Lank (armed)	Location: (grid ref)	~ + 68
Vol. flow (raw sewage) into plant: し, つちむ	m3/d	
Vol. flow out from plant: j ਹਰਾਹ	m3/d	
Vol. flow of river/estuary at discharge point:	3014]	1.279 m³/s
Type of plant:		

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year ((MBq)	
	(MBq)	1997	1996	1995	1994	
Tc-99	240,000	117,000	101000			
I-131	36.000	_	74			
12 22	2,400		-			
Other accept	3 000	74	0.3			
Other succept alpha (titel)	7					
- 3				18		
	<u> </u>					
				_		
			Ţ			
·						

Comments:	102	30	F

* Known as Fornlan all Saints STW

Plant name	Canwrele 570	Site ref:	
and location:	washington hood,	Grid ref:	

Vol. flow (raw sewage) into plant: 29, 450 m 3/d

Vol. flow out from plant: 29, 400 n³/d

Vol. flow of river/estuary at discharge point: [3000] 1.755 m. 1/4

Type of plant:

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
T=-99 m	336 000				
I-125	252		191		
I-131	252,000				
I-123	7,200				
Other anut	28,800			i i	4
alphin (tate)					
		a.			
					

Comments:

75 LIN ; 74 LIN

Plant name and location:	Chelms ford 5.76	Site ref: Grid ref:	
Discharge to:	Blackwater Stray	Location: TL 8405	0820

Vol. flow (raw sewage) into plant: 52,050 m3/d

Vol. flow out from plant: 52, 050 m3/d

Vol. flow of river/estuary at discharge point: 37008] 1.046 m³/a

Type of plant:

Production rate of sludge: None (liquid)

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)		q)	
	(MBq)	1997	1996	1995	1994
Tc - 9 m	300,000		111.364		
I-131	3 600		18		
T-125	600		228		
other encept	2,500		1,100		
I-125 Other ancipt- ciple (tetal)					
				# I	
<u>-</u>					
					•
		-			
			<u> </u>		
		<u> </u>	 		

Comments:

60 ESS

Plant name Cooky Stro Site ref: and location: North outs. Grid ref:

Discharge to: Willow Brook, Location: ?

A. Welland (grid ref)

Vol. flow (raw sewage) into plant: 10,760 m/d

Vol. flow out from plant: 10,76c m/d

Vol. flow of river/estuary at discharge point: [32002] 0.784 m 3/4

Type of plant:

Production rate of sludge: 63,750 m3/1

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
H-3	396				
			 		
			<u> </u>	-	
<u> </u>		<u></u>		 	
		T-F	†		
				4	
					<u></u>
			<u> </u>		
			 		
					•
				2-1	
				<u> </u>	

Comments:	* Willow Book flows into
88 NCH	R. Neme mot R. Welland - beat
	of STO not known.

Plant name Cliff Quay STW Site ref: and location: Epsemine Grid ref:

Discharge to: R. onsell (tdel) Location: TM 1713 4150 (grid ref)

Vol. flow (raw sewage) into plant: 28 - 29,000 m3/d

Vol. flow out from plant: (as above?)

Vol. flow of river/estuary at discharge point: \[\frac{35001}{35001} \] \[\frac{1.384 \times \frac{35001}{2000} \]

Type of plant:

Production rate of sludge: 91,250 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Ac	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994	
H-3	1,200		_	_	-	
C - 14	1,200		70	30	20	
Tc-99m	340,000		80 00	33 000	110 000	
I-131	156,000		39 000	50 000	21,000	
Other anniet	4.082		270	lic	80	
siphy (total)						
50-90 and	96	<u> </u>	-	_		
all other						
aiple (total)						
5+4						
	(4)					

98 507

Comments: 99 SUF

103 SUF

Plant name Ctton Valley STW Site ref: and location: Milton Kannes Grid ref:

Discharge to: R. Grant Duce Location: 37 8841 4518 (grid ref)

Vol. flow (raw sewage) into plant: 54,610 m3/d

Vol. flow out from plant: (as above?)

Vol. flow of river/estuary at discharge point: \[\begin{align*} 330 \ 37 \\ 330 \ 15 \end{align*} \] \[\begin{align*} 6.919 \ m^3/a \\ 330 \ 15 \end{align*} \]

Type of plant:

Production rate of sludge: 98 - 100,000 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year				q) +
	(MBq)	1997	1996	1995	1994
H-3, C-14	180,060		1836	2,300	90
(total)					
I-125	8044		67	20	34
5-35	3 000		_	-	-
Ta-99 m	30,000		2,100	-	1,250
C+-51	388		36	_	149
Otherment	2,534		3	-	2
aibing (take)					
am alpha	12				-
(tate)					
7.00					
				0 0	

Comments: 06 BUC 07 BUC 08 BUC 09 BUC 10 BUC

* not all sites reported such you

Plant name Flag Fen 5700 Site ref: and location: Peterborogh Grid ref:

Discharge to: R. Nene Location: TL 272 994

(grid ref)

Vol. flow (raw sewage) into plant: 58,000 m3/4

Vol. flow out from plant: 58,000 m?/d

Vol. flow of river/estuary at discharge point: \[\] 32001 9.385 \[\mathbb{w}^3/\s

Type of plant:

Production rate of sludge: 105,000 m3/2

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
4	(MBq)	1997	1996	1995	1994
Tc -99 m	360,000			153 8250	153,000
I - 131	24,000			_	
P-32	4,800			-	4
I-123	3600			111	-
I-125	480			302	148
other - wit	3,600			103	16
alpha (tate)					
		··			
			ļ		
				<u> </u>	

Comments:

43 CAM

Plant name and location:	Grantham STO -	Site ref: Grid ref:	
Discharge to:	R. Ostham	Location: 〜らド 925 33 (grid ref)	5

Vol. flow (raw sewage) into plant: 14,300 m3/d

(armed)

14,300 m/d Vol. flow out from plant:

Vol. flow of river/estuary at discharge point: [30005] 0.779 w3/s

Type of plant:

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MI			(p
	(MBq)	1997	1996	1995	1994
Tc -99 m	240 000				
I-123	6.000				
I - 131	1,200				
I - 125	144			<u> </u>	
Etter except	16.800		<u> </u>		
the (tetal)			<u> </u>		
					ļ ——
			<u> </u>		
			<u> </u>		
			 		
			<u> </u>		

Comments: 73 LIN

Site ref: Grid ref:

R. Nene Location: SP 818 619 Discharge to:

(grid ref)

Vol. flow (raw sewage) into plant: 50,000 m3/d

Vol. flow out from plant:

50,000 m³/d

Vol. flow of river/estuary at discharge point:

32,007

32,008

32,008 Type of plant:

Production rate of sludge: 125,625 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			q)
3 4 4 4	(MBq)	1997	1996	1995	1994
Tc-99m	264,000				
I-123	6,000				
I - 125	i20	_			- 1
I - 131	132,000				
Othersnept	25,500				
illia (tetal)					
					_
		a/-			

Comments:

B? NOH

Plant name Great Chesterford STO Site ref: and location: Duffron Walden Grid ref:

Discharge to: R. Cam Location: TL 506 428

(grid ref)

Vol. flow (raw sewage) into plant: 432 m3/d

Vol. flow out from plant: 432 m3/d

Vol. flow of river/estuary at discharge point: [33051] 0.601 m3/.a

Type of plant:

Production rate of sludge: 2,500 m³/y

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
P-32	11,940	3.260	2,530	2,250	
5-35	8.520	137	136	ilo	
P-33	7080	· ·	O	0	
	 			6 -	
		•			
		:			
		,			
	<u> </u>				
	 				·

Comments:

23 CAM 36 CAM

Discharge monds from 23 CAM only

Plant name Haven 5700 Site ref: and location: Colchester, Esse Grid ref:

Discharge to: R. Colne Location: TM 0123

(grid ref)

Vol. flow (raw sewage) into plant: 27, 300 m³/d

Vol. flow out from plant: 27,300 m3/d

Vol. flow of river/estuary at discharge point: \[\37005 \] \\ \.036 \mathred{m}^3/\sigma

Type of plant:

Production rate of sludge: None (signil)

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	A	ctual input per	year (M	Bq)
	(MBq)	1997	1996	1995	1994
H-3	24,000		274		200
Te-99n	360 000		158 Scs		195 615
Ti - 201	6.900		547		519
Ga -67	3000		397		126
In-111	3,600				0
Cr - 51	2700		463	-	704
I - 131	28 E20		10.939		3 013
P-32	3 300		183		3 4
See - 75	300		2		2
St - 89	2 520	_	450		45
エ-125	18=		1		2
there we jet	24 684		617		1,269
when (total)					324-1182
			 _		<u> </u>
					
					
<u></u>					

Comments:

58 ESS 59 ESS 66 ESS

* minor muclides included in this category

Plant name Huntingdon 5720	Site ref:
and location: Godmanchaster	

Type of plant:

Production rate of sludge: 30,000 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
Tc-99 m	360,000	101.000	98 390		
I-131	3600	_	0		
P- 32	1200		_		
I-125	60	1-5	1.9		
Other ensight	4,800	8	5	· · · · · · · · · · · · · · · · · · ·	
chila (tetal)					
				<u> </u>	
		<u> </u>			
T			<u> </u>		
			11		
			ļl		
			↓ ↓		
12					

Comments:

25 CAM

Plant name Site ref: and location: new hat Grid ref:

Discharge to: R. Kennett (hea Brook) Location: TL 699

(grid ref)

350 m/d Vol. flow (raw sewage) into plant:

350 m3/d Vol. flow out from plant:

Vol. flow of river/estuary at discharge point: [33023] 0.249 m/s

Type of plant:

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	<u>1997</u>	1996	1995	1994
Tc 99 m	12,000		_		
C-51	9 600		2587	1.662	
H-3	3,600		119	135	
5 - 35	1200		81	255	
In - 111	1200		_		
P-33	1,200		8	53	
I - 125	7,20		U	25	
P-32	600		33	نبا	
Fe - 59	6				
	1,200		-		
other scents					
				2	
					_

Comments:

92 SUF

Plant name Site ref: and location: Grid ref:

Location: TF 605 223 Discharge to:

(grid ref)

26,000 m3/d Vol. flow (raw sewage) into plant:

26,000 m3/d Vol. flow out from plant:

Vol. flow out from plant:

Vol. flow of river/estuary at discharge point: | 33035 | 15.296 m/s

Type of plant:

Production rate of sludge: 77,500 "/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			lq)
	(MBq)	1997	1996	1995	1994
Tc-99m	240,000	98 100		67,000	68 800
Ga - 67	9,600	166		690	970
I-131	12,000	5.600			440
I-123	6,000			_	-
P-32	2 400	-		42	_
C+-51_	960	121		40	76
I-125	72	9.7		24	38
Co - 57	12	1.9		2	1.6
Other sacet	2,400	0.3			_
othe seept alpha (tetre)					
			·		

Comments:

80 NOF

Plant name Melbourn Site ref: and location: Melbourn, Royaton Grid ref:

Discharge to: R. Mal Location: TL 3842 (grid ref)

Vol. flow (raw sewage) into plant: 1,800 m /d

Vol. flow out from plant: 1,800 m3/d

Vol. flow of river/estuary at discharge point: No GS - assumed flow 0.5 m 3/3

Type of plant:

Production rate of sludge: 2,500 m3/4

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
0	(MBq)	1997	1996	1995	1994
5 - 35	888		0	O	
P-32	444	_	0	C	
T-125	120	13	20	2	
	200		ļ — —		
	<u> </u>				
					
A.					
					 .—.
			<u> </u>		
	 		 		
			 		
	(3)				

Comments:

18 CAM

Plant name Milton STW Site ref: and location: Grid ref:

Discharge to: R. Cam Location: The 483 614 7 as que (grid ref) 473 616 } in R.

482 607

Vol. flow (raw sewage) into plant: 36, 000 ~3/d

Vol. flow out from plant: 36,000 m3/d

Vol. flow of river/estuary at discharge point: [33016*] 3.238 m3/0 (accept)

Type of plant:

Production rate of sludge: none (liquid)

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq) * *			q) **
	(MBq)	1997	1996	1995	1994
H-3 C-14	1.394.952				
(total)					
Ga - 67	31,200	· -			- 10
Tc99 m	960.000				
In-111, 113x	26.400				
I-131	540,000				
P-32 33 (total	58 843		<u> </u>		
5-35	51,807				
C+-51	28 888				
I-125	42 489				
工-122					
Off-rement	279 586			<u>. </u>	
slipe (the					
F-18+	43,200				
V-48*	4.8				
				m ž	
					<u> </u>

Comments:

| CAM | 12 CAM | 13 CAM | 20 CAM 21 CAM 22 CAM 24 CAM
28 CAM 34 CAM 41 CAM 42 CAM 45 CAM 46 CAM 50 CAM
51 CAM 52 CAM 54 CAM 16 CAM (from Babralam)
36 CAM 33 CAM 35 CAM 37 CAM 38 CAM 40 CAM 44 CAM

Plant name Newmerket 5700 and location: Newweeket	Site ref: Grid ref:
Discharge to: Newworkst Public no. 1 drain (assumed to Ruin Snail)	Location: TL 635 671 (grid ref)
Vol. flow (raw sewage) into plant: 6,100	m^3/d
Vol. flow out from plant: 6, 100	m³/d.
Vol. flow of river/estuary at discharge point: [3	3305c] 0.302 m/2
Type of plant:	
Production rate of sludge: 12,500 m3 la	

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Act	ual input p	er year (MB	(p)
	(MBq)	1997	1996	1995	q) 1994
H-3 C-14	600	12	100		
(Tiltel)					
5-35 P-32.	600				
7-33. (teles)				ļ	4
7-33.(t=tal) T-125	24	3.3	ļ. — ——	<u> </u>	_
					_
				<u> </u>	
_					
				T	
			1		

Comments:

26 CAM 96 SUF

Plant name	Paperouth (Everand) STW	Site ref:
and location:	Cambridgeshire	Grid ref:

Vol. flow (raw sewage) into plant: 500 m³/d

Vol. flow out from plant: 500 m³/d

Vol. flow of river/estuary at discharge point: No GS - around flow 0.5 m % Type of plant:

Production rate of sludge: 2,500 m3/y

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
Te-99 m	300 ,000	135,000	183	177,600	
TE - 201	9 600	199	0	_	
Ga - 67	7200	- 1 - 1 Su	0	_	
In - 111	1 800	58	23.6	30.6	
I - 125	720	-	. 0		
Etter sea int	4 850	3.9	ರಿ	2	•
Upin /total)					
4					

Comments:

39 CAM

and location:	Site ref: Grid ref:
Discharge to: Humber saturas	Location: (grid ref)
Vol. flow (raw sewage) into plant:	
Vol. flow out from plant:	
Vol. flow of river/estuary at discharge point:	

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	,			4)
	(MBq)	1997_	1996	1995	1994
Te-99 m	360 200				
I - 131	24,000				
I-125	60			(3)	
Otter might	24,000	<u> </u>			
inh (total)					
1					
			<u> </u>		
(-)					
		-			
					-
			1		
			 	-	

Comments:

71 HUM

Plant name	Sandy STW	Site ref:
and location:		Grid ref:

Type of plant:

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Act	tual input pe	r year (MB	4) *
•	(MBq)	1997	1996	1995	1994
(t-tre)	300	i - [0.9	0.7	4.2
(tetre)					
18 18					_
	_				
			 		_
			 		
			-2-		
	<u> </u>		 		
		· 	+		
			+		
			†	-	
			 		

Comments: 02 BED

Plant name Silver Siw Site ref: and location: Bala Grid ref:

Discharge to: Rim Flitt Location: a The CS 36 (grid ref)

Vol. flow (raw sewage) into plant: 1,800 m3/4

Vol. flow out from plant: 1,800 m3/4

Vol. flow of river/estuary at discharge point: [33028] 0.829 w/s

Type of plant:

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

					<u> </u>
Nuclide	Authorised input per year	Act	Actual input per year (MBq)		
	(MBq)	1997	1996	1995	1994
<u> ۲</u> - اب	240	0.6	0.3	c -3	47.5
<u> </u>			-		
					
				4.1	
<u> </u>					

Comments: Ou Be

Known as Claphill STW

Plant name	Iroutherd 572	Site ref:
and location:	2mex	Grid ref:

Vol. flow of river/estuary at discharge point:

Type of plant:

Production rate of sludge: None (liquid)

Sludge disposal route:

River usage/abstraction:

Nuclide	clide Authorised input per year		Actual input per year (M		
	(MBq)	1997	1996	1995	1994
T= -99 m	480,000		233 873		145.000
I-131	200.000		55,925		70,700
Othersto	36,000		3 441		5 700
cifi (this)					
		<u> </u>	 		
			<u> </u>		
					À
			 		
			 		
			 		
			 		
			 	114	
			 		

Comments:

Plant name Uttons Droves STW Site ref: and location: holworth, Cambridge Grid ref:

Discharge to: Tributors of great one Location: TL 3678 6335 (grid ref)

Vol. flow (raw sewage) into plant: 3,550 m3/d

3,550 m3/d Vol. flow out from plant:

Vol. flow of river/estuary at discharge point: No GS - assumed flow of superior

Type of plant:

Production rate of sludge: 5,000 m2/3

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Act	ual input pe	r year (MI	Bq)
	(MBq)	1997	1996	1995	1994
H-3, C-14	360	0	7	٥	င
(total)		74			
Ott - west	28.8	0	O	0	0.6*
المقاسم (لتعاقد)					
					<u> </u>
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<u> </u>			ļ		ļ
			<u> </u>		ļ
			<u> </u>		
		5			
					<u> </u>
					<u> </u>
					J

Comments:

53 CAM

* I-125 only

Plant name whittlington 570 Site ref:
and location: normal Grid ref:

Discharge to: R. Yave (tidal) Location: TG 2829 0805
(grid ref) (grid ref)

Vol. flow (raw sewage) into plant: 73,000 m3/d

(as above ?) Vol. flow out from plant:

Vol. flow of river/estuary at discharge point: 34004

Type of plant:

34004

34005

6.503 m / a

Production rate of sludge: 182,000 m3/ 7

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (M		r year (MB	۲) -
	(MBq)	1997	1996	1995	1994
C-14, H-3	318,243				
(total)			ļ		
5 -35	37 38c				
P-32 P-33	98 400				
(اخملته)					
T -125	360			-	
Mo-99 /Tc-99 m	624,000				
I-131	300,000				
I-123	4,800				
Gra - 67	6,000				
otter + +	29.510				
alpin (total)					
an allha	0.14				
(take)		143			
nato /71.	249				

Comments: 77 NOF 78NOF 82 NOF 34 NOF

79 NOF 81 NOF

River usage/abstraction:

Plant name agrees UK and location: Charterford, Soffen	Site ref: 55 ESS Grid ref: てし 534 422
Discharge to: R. Cam via unnamed	Location: TL 5314 4237 (grid ref)
Vol. flow (raw sewage) into plant:	
Vol. flow out from plant: 5, 400 m /	th
Vol. flow of river/estuary at discharge point: [3	
Type of plant: Our Sip - disc	have wa settling food
Production rate of sludge:	
Sludge disposal route: To landile	as Vhhu

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
C-14 H-3	22 200				1.36
(total)					
the enight	1,332	·- 		-3	0.00
(folic (total)					
				120	-
					
			-		
_					
					1
					
					
			 		
			 		

Comments: Own STP (55 ESS]

Plant name Babaham Surtitute, Site and location: Babaham, Cambridge Grid	ref: 47 cAM d ref: TL 511 506
	ation: Tん もり 502 d ref)
Vol. flow (raw sewage) into plant:	
Vol. flow out from plant: 7,500 m3/moth	2.
Vol. flow of river/estuary at discharge point: [33	055] 0.242 m³/a
Type of plant: Our Sap - climber be	a filtration into helde

Sludge disposal route: Shadge to landfill on inte (as Value)

River usage/abstraction:

Production rate of sludge:

Nuclide	Authorised input per year	Actual input per year (MBq)				
	(MBq)	1997	1996	1995	1994	
14-3, C-14	4 440	216	612	297		
(tatai)	& 430	1 035	1 615	2.077*	 -	
the (tetal)	8,330	1 035	1,613	2.077		
					_	

Comments: 6- STP [47 CAM]

** Marily Cr-51, P-32, S-35

Plant name	Coroso Uta	Site ref: 67	HUM
and location:	Grimsby , S. Humberaide	Grid ref: TA	1 1587 1675
Discharge to:	South Villigholne	Location:	7

main down & R. Humber (grid ref)

Vol. flow (raw sewage) into plant:

Vol. flow out from plant: 3 60,000 m3/month

Vol. flow of river/estuary at discharge point:

Type of plant: Swn SiP

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Act	ual input pe	r year (MB	q)
	(MBq)	1997	1996	1995	1994
B+-82	177 600				
Tx - 113 x	192,000		L		
Na - 24	38 800				
Mx-56	22 200				
H-3	1,800 000				
Ta-99 m	2 400 000			1.01	
Other and	120 000	·	<u> </u>		
دالما (١٠٠٠)					
		 _			

Comments: Own STP [67 HUM]

Plant name Confeli Bistichnolog	Site ref:	03 BED
and location: Centre Confield	Grid ref:	
Discharge to: Children Brook and h. Grant Ours	(grid rei)	* SP948 432 (05T)
Vol. flow (raw sewage) into plant:	oro w	/month (assumed)
Vol. flow out from plant:	OD D MY	[month (assured)
Vol. flow of river/estuary at discharge point:	33037 33015	6.919 m3/m

Type of plant: Gam 5700

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MI			1)
	(MBq)	1997	1996	1995	1994
1-3 /c-14	48		0		
(talas)	288		0		
pha (t-tu)	700				
		· · · · · · · · · · · · · · · · · · ·			-
			<u> </u>		
			 		

Comments: ewn STP [03 BED]

River usage/abstraction:

Plant name Huntingdon life Science Site ref: 27 CAM and location: alcohon, Huntingdon Grid ref: The 188 743
Discharge to: Cock Book leading Location: ? **Ematchan Book (grid ref)
Vol. flow (raw sewage) into plant:
Vol. flow out from plant: 9,000 m3/month
Vol. flow of river/estuary at discharge point: [33020] 0.760 m3/2
Type of plant: Our 5000 to holding layour before discharge
Production rate of sludge:
Sludge disposal route: Shale to agrilling land at Sternet

Nuclide	Authorised input per year	Actua	al input per	year (ME	(p)
_	(MBq)	1997	1996	1995	1994
C-14 , H-3	120,000	23,500			
(tetal)					ļ
Otto- sucht	4.800	C·i		 	
cipha (tota)			1:		
					-
		*			<u> </u>
					-
			 †		<u> </u>

Comments: Own 25TP [27 cAn]

x motilans But not named on map - commend
flow to alcowby Brook.

Plant name Huntingdon life Sciences Site ref: 95 SUF and location: Zye, Suffolk Grid ref: TM 188 743
Discharge to: R. Done via Cake Location: TM 188 743 Brook and Metchen Brook (grid ref)
Vol. flow (raw sewage) into plant:
Vol. flow out from plant: 9,000 m3/month
Vol. flow of river/estuary at discharge point: [34007] 0.654 m. /a
Type of plant: On STP - to halding lagoon of 2.3x 103 m3 capacit
Production rate of sludge: ?
Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)				
0 0	(MBq)	1997	1996	1995	1994	
C-14 H-3	3600	0.3	905			
(total)	,	- 				
Oth suft	12		0			
citpha (tatel)				,		
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 : :						
	+				<u>-</u>	
						
		·				

Comments: om STP [9550F]

Plant name Int. Terrestrial Ecology Site ref: 29 CAM and location: Oblots Ribton, Grid ref: TL 201 798 and location: Oblots Ripton, Grid ref: TL 201 798

Huntingdon

Discharge to: Europewode Stream Location: TL 201 798

(grid ref)

Vol. flow (raw sewage) into plant:

Vol. flow out from plant: 300 m3/month

Vol. flow of river/estuary at discharge point: [33060] O.445 m/s

Type of plant: Om STP

Production rate of sludge:

Sludge disposal route: Sludge removed once per month (probably)

River usage/abstraction:

Nuclide	Authorised input per year	Act	ual input pe	er year (MB	q)
	(MBq)	1997	1996	1995	1994
T-125	24				
0-14	6		<u> </u>		
4-3	2.4				
			 		
	 		 		
	 				
			<u> </u>		
					
			ļ		
<u> </u>					
			· ·		P-1

Comments: Own STP [29 CAM]

* Not alout where majority of stream flow will go, as sommers possible dummars [to High hale, Kings Doke on R. Neme (Old Comes)]

Plant name and location:	hinday oil Refusing buringles , lynning	Site ref: Grid ref:	6 8 TA	HUM 1569	1755
Discharge to:	North Killingholme Dain and R. Hunder extrang	Location: (grid ref)	TA	1579	186
Val flore (mare	r compage) into plants				

w (raw sewage) into plant:

Vol. flow out from plant: 180,000 m3/moth

Vol. flow of river/estuary at discharge point:

Type of plant: 5-P

Production rate of sludge:

Sludge disposal route:

River usage/abstraction:

Nuclide	Authorised input per year	Actual input per year (MBq)			
	(MBq)	1997	1996	1995	1994
H-3	450 000				
In - 113 m	38 300	<u> </u>			
Br-82	فريد نيص				
Na - 24	22,200				
Mn-56	22 200			_	
Ba - 137 m	22.200				
		- 4			
	- <u></u>				
	<u> </u>				
	-				

own STP [68 HUM]

Plant name unles Rosembe. Site ref: 05 BED and location: Sharnbrook, Belford Grid ref: 5798 60

Discharge to: Share Brook and then Location: SP 98 60 (grid ref) to Great Ome

Vol. flow (raw sewage) into plant:

Vol. flow out from plant: 18,000 m3/north

Vol. flow of river/estuary at discharge point: [33009] 9. 460 m3/4

Type of plant:

Production rate of sludge: 2m diad sludge senonal approx. 2 months

Sludge disposal route: Definite into sinter in Colorath Estate

River usage/abstraction:

River usage/abstraction:

spiriting water intake at Claplan water treatment works approx. 15 miles downstream on h. Great Deco

Nuclide	Authorised	Actual input per year (MBq)				
	input per year (MBq)	1997	1996	1995	1994	
11 -3	2 400	52.5	42.6	50.2		
C - 14	2 400	39.6	75.3	81.6		
Cr.51	1200		C	0.014	- 4-	
P-32	1,200	0.5	3-7	2.3		
P- 33	1 200	<u>i.</u> C	0	9.9		
I-125	i,200	28.9	30.9	48.2		
Fe-59	1 200		0			
Y-40	200		O			
In-111	1,200		ن			
5-35	1080	-	3.7	18.6		
Ca - 45	900		c			
Ru-103	720		_0			
CE-36	ليانيان		0			
Mm-54	لندند		0			
	ī			<u> </u>		

Comments:

Om STP [OS BED]

Plant name and location:	Kettering, n'hampten	Site ref: Grid ref:	89 57	NOH 839	& c-0
Discharge to:	Existing sonkarray	Location:	57	8384	8000

Vol. flow (raw sewage) into plant:

Vol. flow out from plant: 600 m3/month

Vol. flow of river/estuary at discharge point: N/A

Type of plant: Own 5.P - 13 m3 two steep primary tack followed by 24/24(?) enclosed biofilte inthe pump capacity of 7 m3.

Production rate of sludge:

Sludge disposal route: Shadge removed by tanker and defosited off-rite (?) at 4-6 months internals +

River usage/abstraction:

Authorised input per year	Actual input per year (MBq)					
(MBq)	1997	1996	1995	1994		
2,040			15			
						
340						
	input per year (MBq) 2,040	input per year (MBq) 1997 2,040	input per year (MBq) 1997 1996	input per year (MBq) 1997 1996 1995 2,040 is		

Comments: own STP [89 NOH]

* Disposed at anglian Octar Treatment plants at either Carby or Wellingborough