The version of GASPAR used to calculate the dose factors for ingestion employed the methods of Regulatory Guide 1.109 Equation C-13. Default parameter values as contained in the Regulatory Guide were used in conjunction with Equation C-13 and its supporting equations, except for ^3H where the site specific humidity value was set to 13 g/m^3. Equation C-13 contains concentration expressions for meat, milk, produce, and leafy vegetables. Each pathway dose factor of Table B4-7b was calculated by setting the other pathway concentration expressions to zero and solving the equation for each organ and age group. The airborne concentration ($Q(T) * \chi/Q$) or ground deposition ($d_i(r,\theta)$) was extracted from the components of Equation C-13 (Equations C-5, C-8, C-9, C-10, C-11, and C-12) to render the pathway dose factors of Table B4-7b independent of the release rate and atmospheric diffusion/deposition. As required by the Regulatory Guide, ^{14}C and ^3H concentrations in vegetation were calculated using special equations (C-8 and C-9).

The inhalation dose factors of Table B4-7b were calculated by GASPAR using the methods of Equation C-4 with the airborne concentration factor of Equation C-3 extracted to render dose factors independent of release rate and atmospheric dispersion.

The ground shine dose factors of Table B4-7b were calculated by GASPAR using the methods of Equation C-2 with the deposition factor ($\delta_i(r,\theta) * Q(i)$) of Equation C-1 extracted to render dose factors independent of release rate and location.

The dose commitment age as described in Regulatory Guide 1.109 was used in the tabulation of dose factors in Table B4-7b.

4.5 Control 3.11.1.3

The liquid waste processing system shall be operable and appropriate portions of the system shall be used to reduce releases of radioactivity when the projected doses due to the liquid effluent, from each unit, to unrestricted areas would exceed 0.06 mrem to the whole body or 0.2 mrem to any organ in a 31-day period.

Doses due to liquid effluent releases shall be estimated prior to release of each batch from the radioactive waste monitor tanks. The 31-day dose projection shall be calculated as shown below:

$$\text{31-day dose projection} = \frac{31}{\text{days}} * (\text{accumulated dose}) + SF \quad (\text{mrem}) \qquad \text{Eq. 4.5a}$$

where 31 = days in the averaging period

days = integer number of days into the quarter (greater than or equal to 1 but less than or equal to 92)

accumulated dose = sum of doses from releases in the current quarter (mrem) and the projected release

SF = safety factor, (projected dose limit) * 0.05, i.e. 5% of limit

Since this operating condition is applied to each unit separately, concurrent releases from both units need not be considered.

4.6 Control 3.11.2.4

The gaseous waste processing system shall be operable and appropriate portions of this system shall be used to reduce releases of radioactivity when the projected doses in 31 days due to gaseous effluent releases from each unit to areas at or beyond the site boundary would exceed:

0.2 mrad to air from gamma radiation, or
0.4 mrad to air from beta radiation, or
0.3 mrem to any organ of a MEMBER OF THE PUBLIC.

Unit vent air samples are analyzed weekly for each unit. The average concentrations of the radionuclides so measured may be used to calculate the unit specific doses from releases that week. These average weekly doses plus doses from any special or batch releases during the week may be used in Eq. 4.5a to project the doses of Control 3.11.2.4 over the subsequent 31-day period. If an unusually large release is planned, add this projected dose to the average 31-day doses to confirm that the operating constraints of Control 3.11.2.4 are satisfied. These constraints pertain to each unit separately, and the dose projections from the two units need not be summed when determining operating constraints imposed by this Control.

4.7 Control 3.11.4 Dose Calculations

If the annual dose or dose commitment to a MEMBER OF THE PUBLIC at or beyond the site boundary due to releases of liquid or gaseous effluents exceeds twice the limits of Controls 3.11.1.2.a, 3.11.1.2.b, 3.11.2.2.a, 3.11.2.2.b, 3.11.2.3.a, or 3.11.2.3.b, Control 3.11.4 requires that the total dose from the uranium fuel cycle be calculated.

Since no mining, milling, or waste disposal activities exist within 50 miles of STP, only direct radiation from plant structures need be added to that calculated for effluents to obtain the total dose. Direct radiation from the plant and plant structures is estimated based on ambient radiation measurements made in the proximity of each potential source within a direct line of sight to the critical receptor location. TLD measurements at the protected area fence may provide the estimate of direct radiation following background subtraction. This measured dose rate may be adjusted to compensate for distance to the critical receptor location. The direct radiation dose shall be added to the doses previously calculated for radioactive effluents for comparison with the limits of 40CFR Part 190 as shown below:

Total Dose= **MAXIMUM** $\{Dose_{liquid}(a,j) + Dose_{air}(a,j) + Dose_{direct}\}$ from age groups, a, and organs, j

where

$Dose_{liquid}(a,j)$ from Equation 4.1a
$Dose_{air}(a,j)$ from Equation 4.4k
$Dose_{direct}$ = $TLD * (PA)^2 / (RD)^2$
TLD = net measured exposure @ protected area fence, rem
PA = containment to protected area fence distance where TLD located, meters
RD = distance from containment to critical receptor, meters

4.8 10CFR20.1301 Dose to MEMBERS OF THE PUBLIC

In addition to meeting the requirements of the controls in Part A of the ODCM and 40CFR190, STP is required to meet the dose limits of 10CFR20.1301 in accordance with the methods of 10CFR20.1302. As provided in 10CFR20.1302(b)(1), the calculated dose to a Member of the Public must not exceed 100 mrem in a year. For the purpose of 10CFR20.1301 dose calculations, a Member of the Public is an individual inside or outside the owner controlled area except when that individual receives an occupational dose. Occupational dose at STP is associated with individuals whose work may involve exposure to radiation in excess of 100 mrem in a year. All such individuals are given one or more levels of training as required by 10CFR19 for occupational exposed workers.

All STP employees and contractors with unescorted access to the protected area (the security fence surrounding the nuclear two units) have been identified as receiving occupational dose and meet the training requirements of 10CFR19. Vendors or working visitors (temporary contractors) who are likely to receive 100 mrem in a year are briefed on the hazards of ionizing radiation, are assigned a dosimeter, and their exposure is controlled to occupational limits.

STP employees and contractors whose dose is not occupational are considered Members of the Public and do not take any radiation worker training courses (General Employee Training Classes). In addition, some visitors who enter the protected area but are not expected to receive occupational exposure are considered Members of the Public. They are not trained or issued a radiation dosimeter. The dose to a Member of the Public as described here is not part of the off-site dose calculated to demonstrate compliance with 40CFR190 or the controls of Part A.

To demonstrate compliance with 10CFR20.1301, dose to Members of the Public from inhalation of particles, iodines, and tritium is added to dose from exposure to external sources and noble gases. No dose is estimated for liquid effluents since no pathway exists for Members of the Public to ingest contaminated water while at STP. The sum of these two components must not exceed 100 mrem in a year.

The annual inhalation and noble gas dose components are calculated as the sum (for both units) of the annual average concentrations of particles, iodines, and noble gases in the highest X/Q

sector at 200 meters divided by the corresponding concentrations in Appendix B, Table 2, column 1, and multiplied by 50 mrem/year.

inhalation dose = $50 * T * X/Q_{200} \sum_{\text{nuclide i}} (Q(i) / EC_i)$ Equation 4.8a

where $Q(i)$ = annual average release rate of nuclide i, Ci/sec
EC_i = effluent concentration of nuclide i, uCi/cm^3 in air
X/Q_{200} = maximum diffusion constant at 200 meters, sec/m^3
50 = mrem for exposure to 1 EC for a year, mrem/yr
T = exposure duration, yr

The external dose rate component (above natural background) may be measured using TLDs within the owner-controlled area.

An example for a visiting Member of the Public to the protected area follows:

The visitor makes four entries into the protected area during the year to service equipment. Each visit is assumed to involve a 10 hour work day for a total exposure time of 40 hours over the course of the year. While inside the protected area fence, he is exposed to airborne Xe-133, I-131, and Co-60. The annual average X/Q at 200 meters is 2.4E-5 m^3/sec and the annual average release rates summed for both units are 1.0E-6, 2E-15, and 8E-13 Ci/sec respectively. The maximum external dose rate measured by TLDs is 100 mrem/yr. (Note: The external dose rate alone is limited by 10CFR20.1301 to 2 mrem in an hour.)

inhalation/immersion dose = 50 * 40 hr / 8760 (hr/yr) * 2.4E-5 * £ (1.0E-6)/(5.0E-7) + (2E-15)/(2E-10) + (8E-13)/(5E-11) ¤
= 1E-5 mrem

external dose = 100 mrem/yr * 40 hr / 8760 (hr/yr)
= 0.5 mrem

total dose = 0.5 mrem in a year for a visiting Member of Public within the protected area for comparison with 10CFR20.1301 annual dose limits.

An example of an employee Member of the Public located outside the protected area follows:

The employee works 2000 hours while not exposed to occupational dose during the year. The work location is in an office building near the protected area fence where he is exposed to airborne Xe-133, I-131, and Co-60. The annual average X/Q at 200 meters is 2.4E-5 m^3/sec and the annual average release rates summed for both units are 1.0E-6, 2E-

15, and 8E-13 Ci/sec respectively. The maximum external dose rate measured by TLDs at the protected area fence is less than 20 mrem/yr.

inhalation/immersion dose rate = 50 * 40 hr / 8760 (hr/yr) * 2.4E-5 * £ (1.0E-6)/(5.0E-7) + (2E-15)/(2E-10) + (8E-13)/(5E-11) ¤
= 1E-5 mrem

external dose < 20 mrem/yr * 2000 hr / 8760 (hr/yr)
< 5 mrem

total dose < 5 mrem in a year for an employee Member of Public located outside the protected area for comparison with 10CFR20.1301 annual dose limits.

4.9 Population Dose Estimation

Doses to the population are calculated in a manner similar to that described for individuals with two exceptions. The dose factors are taken from Table B4-11, and the doses calculated for each population group are summed. The R(all,i,j) age-adjusted dose factors for atmospheric pathways of Table B4-11 were calculated using the equations of Regulatory Guide 1.109 in the GASPAR code along with default consumption/use factors. The values for R(all,i,j) appearing in Table B4-11 for liquid releases are the age adjusted dose factors for the general population calculated as [0.71 * R(adult,i,j) + 0.11 * R(teen,i,j) + 0.18 * R(child,i,j)]. R(a,j,i) are calculated from Eq. 4.2g and Eq. 4.2h using data from Table B4-8.

Population doses due to liquid effluents are calculated in the manner of Equation 4.9a for each member of the population. The resulting doses are then multiplied by the number of individuals residing within 50 miles of STP. If sufficient quantities of a particular food are produced within 50 miles of STP to feed the 300,000 inhabitants of this region, the population for that pathway is reduced to the number who could consume the average amount of that food without exhausting the locally produced supply. For example, since only about 220,000 Kg of saltwater sport fish are taken in Matagorda Bay and the Colorado River each year, only 37,000 individuals may be assumed to consume 5.9 Kg = (0.71 * 6.9 + 0.11 * 5.2 + 0.18 * 2.2) per year of fish each to account for this mass. In order to account for recreation on both the Colorado River and Matagorda Bay, half the population is assumed to use each of these waters. All crustaceans (8.9 E+06 Kg) per year are assumed to be taken from Matagorda Bay.

$$\text{pop. dose}_{liq} = \sum_{path=p} \text{population}_p \sum_{nuclide=i} Q(i) * R(all,i) \qquad \text{Equation 4.9a}$$

where

population_p = population within 50 miles exposed to each pathway, P

Q(i) = release by nuclide, i (Ci)
R(all,i) = are taken from Table B4-11 for the whole body

Population doses due to gaseous effluents are calculated in a two step process. The population within 50 miles of STP is listed by sector and distance in Table B4-10. The population dose is calculated by first calculating the X/Q, depleted X/Q, and D/Q for each distance and sector. The product of the dose factors from Table B4-11 and X/Q (for the plume pathway), depleted X/Q (for the particulate and iodine inhalation pathway), or D/Q (for the ingestion pathways) for a given distance/sector group gives the dose to each member of that group. The product of these doses by the number of individuals in the group gives the dose to each group. The sum over all groups within 50 miles gives the total population dose.

Equation 4.9b:

$$\text{pop. dose}_{air} = T * \sum_{s} pop(s) * [\, X/Q(s) * \sum_{i} R(all,i)_{plume} * Q(i) + X/Q_d(s) * \sum_{i} R(all,i)_{inhalation} * Q(i) + D/Q(s) * \sum_{path} \sum_{i} R(all,i)_{path} * Q(i) \,]$$

where

T = time period covered by the calculation (hours)
pop(s) = number of people in distance/sector group "s" from Table B4-10
X/Q(s) = X/Q for distance/sector "s" per Eq. 4.4a (sec/m^3)
$X/Q_d(s)$ = depleted X/Q for distance/sector "s" per Eq. 4.4b (sec/m^3)
Note: X/Q(s) substituted for $X/Q_d(s)$ for H-3 and C-14
R(all,j) = dose factors from Table B4-11 for the whole body for each pathway (units as described in notes to Table B4-7)
Q(i) = release rate of nuclide "i" (Ci/sec)
D/Q(s) = deposition for distance/sector "s" per Eq. 4.4c (1/m^2)

Table B4-1: Radionuclide Fractions, N(i), Reaching Off-site Bodies of Water

Nuclide	Half-life (days)	Colorado River	Matagorda Bay	Little Robbins Slough Area
H3	4.51E+03	7.87E-02	1.30E-01	4.81E-02
BE7	5.34E+01	2.56E-04	4.23E-04	1.57E-04
C14	2.09E+06	2.43E-02	4.01E-02	1.48E-02
NA24	6.25E-01	6.61E-13	1.09E-12	4.04E-13
P32	1.43E+01	4.22E-05	6.96E-05	2.57E-05
SC46	8.40E+01	4.27E-04	7.04E-04	2.61E-04
CR51	2.78E+01	1.13E-04	1.87E-04	6.93E-05
MN54	3.13E+02	1.64E-03	2.71E-03	1.00E-03
MN56	1.07E-01	0.00E+00	0.00E+00	0.00E+00
FE55	9.86E+02	4.60E-03	7.60E-03	2.81E-03
FE59	4.46E+01	2.07E-04	3.42E-04	1.27E-04
CO57	2.71E+02	1.43E-03	2.36E-03	8.75E-04
CO58	7.08E+01	3.54E-04	5.84E-04	2.16E-04
CO60	1.93E+03	7.64E-03	1.26E-02	4.67E-03
NI63	3.50E+04	2.17E-02	3.59E-02	1.33E-02
NI65	1.05E-01	0.00E+00	0.00E+00	0.00E+00
CU64	5.29E-01	3.33E-14	5.49E-14	2.03E-14
ZN65	2.45E+02	1.30E-03	2.14E-03	7.92E-04
ZN69	3.96E-02	0.00E+00	0.00E+00	0.00E+00
ZN69M	5.74E-01	1.49E-13	2.46E-13	9.11E-14
BR82	1.47E+00	1.17E-08	1.93E-08	7.14E-09
BR83	9.96E-02	0.00E+00	0.00E+00	0.00E+00
BR84	2.20E-02	0.00E+00	0.00E+00	0.00E+00
BR85	1.99E-03	0.00E+00	0.00E+00	0.00E+00
RB86	1.86E+01	6.43E-05	1.06E-04	3.93E-05
RB88	1.23E-02	0.00E+00	0.00E+00	0.00E+00
RB89	1.05E-02	0.00E+00	0.00E+00	0.00E+00
SR89	5.06E+01	2.41E-04	3.97E-04	1.47E-04
SR90	1.04E+04	1.74E-02	2.86E-02	1.06E-02
SR91	3.96E-01	5.14E-17	8.48E-17	3.14E-17
SR92	1.13E-01	0.00E+00	0.00E+00	0.00E+00
Y90	2.67E+00	4.14E-07	6.83E-07	2.53E-07
Y91M	3.45E-02	0.00E+00	0.00E+00	0.00E+00
Y91	5.85E+01	2.85E-04	4.70E-04	1.74E-04
Y92	1.47E-01	0.00E+00	0.00E+00	0.00E+00
Y93	4.21E-01	2.40E-16	3.96E-16	1.46E-16
ZR95	6.40E+01	3.16E-04	5.22E-04	1.93E-04
ZR97	7.04E-01	4.27E-12	7.05E-12	2.61E-12

Table B4-1: Radionuclide Fractions, N(i), Reaching Off-site Bodies of Water (cont'd)

Nuclide	Half-life (days)	Colorado River	Matagorda Bay	Little Robbins Slough Area
NB95	3.51E+01	1.54E-04	2.54E-04	9.42E-05
NB97	5.01E-02	2.95E-04	4.86E-04	1.80E-04
MO99	2.75E+00	4.71E-07	7.77E-07	2.88E-07
TC99M	2.51E-01	2.42E-23	4.00E-23	1.48E-23
TC101	9.86E-03	0.00E+00	0.00E+00	0.00E+00
RU103	3.93E+01	1.78E-04	2.93E-04	1.09E-04
RU105	1.85E-01	1.86E-29	2.99E-29	1.14E-29
RU106	3.68E+02	1.92E-03	3.17E-03	1.17E-03
AG110M	2.51E+02	1.33E-03	2.19E-03	8.12E-04
SN113	1.15E+02	6.00E-04	9.91E-04	3.67E-04
SB124	6.02E+01	2.95E-04	4.86E-04	1.80E-04
SB125	1.01E+03	4.71E-03	7.76E-03	2.87E-03
TE125M	5.80E+01	2.82E-04	4.66E-04	1.72E-04
TE127M	1.09E+02	5.67E-04	9.35E-04	3.46E-04
TE127	3.90E-01	3.50E-17	5.77E-17	2.14E-17
TE129M	3.36E+01	1.46E-04	2.40E-04	8.89E-05
TE129	4.84E-02	0.00E+00	0.00E+00	0.00E+00
TE131M	1.25E+00	3.10E-09	5.12E-09	1.90E-09
TE131	1.74E-02	0.00E+00	0.00E+00	0.00E+00
TE132	3.26E+00	9.68E-07	1.60E-06	5.91E-07
I130	5.15E-01	1.96E-14	3.23E-14	1.19E-14
I131	8.04E+00	1.40E-05	2.31E-05	8.56E-06
I132	9.60E-02	0.00E+00	0.00E+00	0.00E+00
I133	8.67E-01	6.99E-11	1.15E-10	4.27E-11
I134	3.66E-02	0.00E+00	0.00E+00	0.00E+00
I135	2.75E-01	7.64E-22	1.26E-21	4.67E-22
CS134	7.52E+02	3.67E-03	3.67E-03	0.00E+00
CS135	1.39E+01	4.02E-05	6.63E-05	0.00E+00
CS136	1.31E+01	3.64E-05	3.64E-05	0.00E+00
CS137	1.10E+04	1.76E-02	1.76E-02	0.00E+00
CS138	2.24E-02	0.00E+00	0.00E+00	0.00E+00
BA139	5.74E-02	0.00E+00	0.00E+00	0.00E+00
BA140	1.28E+01	3.48E-05	5.74E-05	2.12E-05
BA141	1.27E-02	0.00E+00	0.00E+00	0.00E+00
BA142	7.42E-03	0.00E+00	0.00E+00	0.00E+00
LA140	1.68E+00	3.03E-08	4.99E-08	1.85E-08
LA142	6.43E-02	0.00E+00	0.00E+00	0.00E+00
CE141	3.25E+01	1.39E-04	2.30E-04	8.52E-05

Table B4-1: Radionuclide Fractions, N(i), Reaching Off-site Bodies of Water (cont'd)

Nuclide	Half-life (days)	Colorado River	Matagorda Bay	Little Robbins Slough Area
CE143	1.38E+00	6.91E-09	1.14E-08	4.22E-09
CE144	2.83E+02	1.49E-03	2.47E-03	9.13E-04
PR143	1.36E+01	3.85E-05	6.36E-05	2.35E-05
PR144	1.20E-02	0.00E+00	0.00E+00	0.00E+00
ND147	1.11E+01	2.68E-05	4.42E-05	1.64E-05
W187	9.96E-01	3.41E-10	5.62E-10	2.08E-10
NP239	2.35E+00	2.20E-07	3.62E-07	1.34E-07
Other	1.00E+09	2.43E-02	4.01E-02	1.49E-02

*Note: Cesium isotopes diffusing through the soil to enter the Little Robbins Slough area are assumed to be trapped in the soil.

All other calculations were made according to the methods of Section B4.2.2 where the above listed pathway values correspond to the following:

Colorado River = $N_c(i)$ = fc * Floss
Matagorda Bay = $N_m(i)$ = (fc + fwc + flrs + felrs) * Floss
Little Robins Slough = $N_{lr}(i)$ = (flrs + felrs) * Floss

Values less than 1.00E-30 are rounded to 0.00E+00 since such small fractions do not contribute to off-site doses significantly.

Table B4-2: Liquid Dose Pathway Factor Description

U	=	annual intake of fish, kg/y (note 1)
Ub	=	annual use factor for shoreline exposure, hr/y
M	=	dilution factor; all flow rates are normalized to that of the Colorado River
F	=	flow rate of the Colorado River, cfs (note 2)
Q(i)	=	release of nuclide "i" from the reservoir, Ci
N(i)	=	fractional release of nuclide "i" from the reservoir to a given pathway as listed in Table B4-1
B(i)	=	bioaccumulation factor for nuclide "i" to a given pathway, [pCi in fish/kg of fish]/[pCi in water/kg of water] (note 3)
D(a,i,j)	=	dose factor for nuclide "i", organ "j", age "a", mrem/pCi or mrem/hr per pCi/m^2 (note 4)
Y(i)	=	decay constant for nuclide "i", 1/hour
T(i)	=	half-life of nuclide "i", days
T	=	average transit time from release to ingestion of fish by man; or to deposition in sediment, hr (note 5)
Tb	=	time period during which sediment is exposed to contaminated water, hr.
W	=	shoreline width factor
R(a,i,j)	=	dose to organ "j" for a particular release from nuclide "i" and age group "a" (units as described in notes to Table B4-7)

Note 1: Little Robbins Slough area is assumed to contain freshwater fish only while the Colorado River and Matagorda Bay/Gulf of Mexico are assumed to yield saltwater fish and invertebrates as per Regulatory Guide 1.109.

Note 2: The minimum flow rate of the Colorado River during which blow down is permitted.

Note 3: Bioaccumulation factors for saltwater fish and invertebrates are taken from Table A-1 of Regulatory Guide 1.109; saltwater values are used with the Colorado River, Matagorda Bay/Gulf of Mexico, and fresh water values for the lakes along Little Robbins Slough.

Note 4: The dose factors for Equation 4.2g are taken from Table E-11 of Regulatory Guide 1.109 whereas the dose factors for Equation 4.2h come from Table E-6 of Regulatory Guide 1.109.

Note 5: The average time between nuclide release to the unrestricted aquatic environment and fish consumption comes from Table D-1 of Regulatory Guide 1.109. No delay is assumed between release and contamination of sediment for Equation 4.2h because the delay between release and soil exposure is likely to be short compared to the half-lives of the nuclides.

Table B4-3: Liquid Parameter Values for Eq. 4.2g and 4.2h

Parameter	Parameter Value				
U	Adult	Teen	Child	Infant	
Colorado River	21	16	6.9	0	kg/y saltwater fish
	5	3.8	1.7	0	kg/y saltwater invertebrate
Matagorda Bay	21	16	6.9	0	kg/y saltwater fish
	5	3.8	1.7	0	kg/y saltwater invertebrate
Little Robbins area	21	16	6.9	0	kg/y freshwater fish
Ub	Adult	Teen	Child	Infant	
Colorado River	12	67	1	0	hr/y
Matagorda Bay	12	67	14	0	hr/y
Little Robbins area	12	67	14	0	hr/y
M					
Colorado River	1.00				
Matagorda Bay	163				
Little Robbins area	0.0305				
F	600 cfs				
N(i)					
Colorado River	values by nuclide "i" and pathway from				
Matagorda Bay	Table B4-1				
Little Robbins area					
T					
fish ingestion	24 hr				
shoreline exposure	0 hr				
Tb	1.31E+05 hr				
W					
Colorado River	0.2				
Matagorda Bay	0.5				
Little Robbins area	0.2				
B(i)	nuclide specific from Table A-1, Regulatory Guide 1.109				
D(a,i,j)	nuclide specific from Table E-11 or E-6, Regulatory Guide 1.109				

TableB4-4: Pathways for Calculating Individual Doses from Liquid Effluent Releases

PATHWAYS	RECEPTOR LOCATIONS		
	Colorado River	Matagorda Bay	Little Robbins
Shore Exposure	X	X	X
Salt Water Fish Ingestion	X	X	
Salt Water Invertebrate Ingestion	X	X	
Fresh Water Fish Ingestion			X
Potable Water			
Irrigated Crops			
Animal Products			

Table B4-5: Particle Depletion and Deposition Factors for Ground Level Releases

Distance (meters)	Depletion	Deposition (1/meter)
200	0.970	1.2E-04
500	0.936	8.0E-05
1000	0.900	5.4E-05
2000	0.860	3.2E-05
3000	0.832	2.6E-05
6000	0.770	1.5E-05
10,000	0.714	9.9E-06
30,000	0.590	4.5E-06
50,000	0.517	3.0E-06
80,000	0.440	2.0E-06

The depletion fractions of this table were estimated from Figure 2 of Regulatory Guide 1.111 and are used in Equation 4.4b in section B4.4.1.2.

The deposition factors of this table were estimated from Figure 6 of Regulatory Guide 1.111 and are used in Equation 4.4c of section B4.4.1.3. The ingestion pathways use the deposition to calculate dose factors.

Both depletion and deposition factors at distances between the tabulated values may be estimated by linear interpolation.

Table B4-6: Distances to Gaseous Dose Pathway Receptors for Individuals (meters)

	PATHWAYS				RECEPTOR
DIRECTION	PLUME	VEGETATION	MEAT	MILK	
N	1400	1400	1400	1400	Site Boundary
	5600	5600	5600	0	Nearest Person*
NNE	1500	1500	1400	1500	Site Boundary
	8000	8000	8000	0	Nearest Person
NE	1600	1600	1400	1600	Site Boundary
	8000	8000	8000	0	Nearest Person
ENE	1600	1600	1400	1600	Site Boundary
	8000	8000	8000	0	Nearest Person
E	1600	1600	1400	1600	Site Boundary
	8000	8000	8000	0	Nearest Person
ESE	1900	1900	1400	1900	Site Boundary
	5600	5600	5600	0	Nearest Person
SE	5600	5600	3500	5600	Site Boundary
	5600	5600	5600	0	Nearest Person
SSE	6000	6000	5800	6000	Site Boundary
	8000	8000	8000	0	Nearest Person
S	5900	5900	5700	5900	Site Boundary
	0	0	0	0	Nearest Person
SSW	6000	6000	5500	6000	Site Boundary
	8000	8000	8000	0	Nearest Person
SW	3900	3900	3400	3900	Site Boundary
	7200	7200	7200	0	Nearest Person
WSW	2880	2880	1940	2880	Site Boundary
	4000	4000	4000	0	Nearest Person
W	2160	2160	2000	2160	Site Boundary
	7200	7200	7200	0	Nearest Person
WNW	1850	1850	1800	1850	Site Boundary
	6400	6400	6400	0	Nearest Person
NW	1720	1720	1690	1720	Site Boundary
	7200	7200	7200	0	Nearest Person
NNW	1540	1540	1500	1540	Site Boundary
	5600	5600	5600	0	Nearest Person

* Nearest person may be changed for purposes of dose calculations without changing this table. If the distance to the nearest person was greater than 8000 meters, 8000 meters was used as a default value.

Table B4-7: Pathway Dose Factors

NOTES:

Liquid Pathway Dose Factors - Table B4-7a

This table consists of two sections. The first is a listing of pathway dose factors by nuclide and pathway for liquid effluents. These factors were calculated using the equations and methods of Part B, Section 4.2 of the ODCM. The product of a particular factor and a quantity of activity (Ci) released to the reservoir will yield the dose (mrem) to an individual at each of the locations and for each of the pathways specified.

The liquid dose factors for cesium isotopes were set to zero for pathways associated with relief well discharges into the Little Robbins Slough area in order to conform with the assumptions made in the UFSAR, Appendix 11.A, regarding the transportability of cesium in soil.

The units for all liquid dose factors are (mrem/Ci).

The factors used by the computer codes which perform these calculations may differ by a few percent due to round-off errors. Moreover, nuclides with vanishing small factors (less than 1.0E-20 mrem/Ci) have no impact on the dose calculations and are set to zero. Some nuclides may have zeros for all pathways because Regulatory Guide 1.109 data result in zero valued factors.

Gaseous Pathway Dose Factors - Table B4-7b

The second section of this table consists of a listing by nuclide of the gaseous pathway dose factors. These factors were calculated using a code similar to GASPAR and are based on the methods of Regulatory Guide 1.109.

The units used for noble gases, tritium, and all nuclides for the inhalation pathway are (mrem-m^3/Ci-sec). The product of this pathway dose factor, the release (Ci), and the appropriate depleted X/Q (sec/m^3) or X/Q (for noble gases, tritium and carbon 14) yields the dose in (mrem).

The units used for all other nuclides in all other pathways are (mrem-m^2/Ci). The product of this pathway dose factor, the release (Ci), and the appropriate D/Q yields the dose (mrem) over the release period.

Some nuclides may have zeros for all pathways because Regulatory Guide 1.109 data result in zero valued factors.

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : H3

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.73E-06	5.73E-06	0.00E+00	5.73E-06	5.73E-06	5.73E-06	5.73E-06
TEEN:	4.41E-06	4.41E-06	0.00E+00	4.41E-06	4.41E-06	4.41E-06	4.41E-06
CHILD:	3.64E-06	3.64E-06	0.00E+00	3.64E-06	3.64E-06	3.64E-06	3.64E-06
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.86E-07	2.86E-07	0.00E+00	2.86E-07	2.86E-07	2.86E-07	2.86E-07
TEEN:	2.20E-07	2.20E-07	0.00E+00	2.20E-07	2.20E-07	2.20E-07	2.20E-07
CHILD:	1.82E-07	1.82E-07	0.00E+00	1.82E-07	1.82E-07	1.82E-07	1.82E-07
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.90E-09	2.90E-09	0.00E+00	2.90E-09	2.90E-09	2.90E-09	2.90E-09
TEEN:	2.23E-09	2.23E-09	0.00E+00	2.23E-09	2.23E-09	2.23E-09	2.23E-09
CHILD:	1.84E-09	1.84E-09	0.00E+00	1.84E-09	1.84E-09	1.84E-09	1.84E-09
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.04E-08	7.04E-08	0.00E+00	7.04E-08	7.04E-08	7.04E-08	7.04E-08
TEEN:	5.41E-08	5.41E-08	0.00E+00	5.41E-08	5.41E-08	5.41E-08	5.41E-08
CHILD:	4.63E-08	4.63E-08	0.00E+00	4.63E-08	4.63E-08	4.63E-08	4.63E-08
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.13E-10	7.13E-10	0.00E+00	7.13E-10	7.13E-10	7.13E-10	7.13E-10
TEEN:	5.47E-10	5.47E-10	0.00E+00	5.47E-10	5.47E-10	5.47E-10	5.47E-10
CHILD:	4.69E-10	4.69E-10	0.00E+00	4.69E-10	4.69E-10	4.69E-10	4.69E-10
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : C14

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.89E-02	4.89E-02	2.45E-01	4.89E-02	4.89E-02	4.89E-02	4.89E-02
TEEN:	5.33E-02	5.33E-02	2.66E-01	5.33E-02	5.33E-02	5.33E-02	5.33E-02
CHILD:	6.85E-02	6.85E-02	3.42E-01	6.85E-02	6.85E-02	6.85E-02	6.85E-02
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.56E-04	9.56E-04	4.78E-03	9.56E-04	9.56E-04	9.56E-04	9.56E-04
TEEN:	1.04E-03	1.04E-03	5.20E-03	1.04E-03	1.04E-03	1.04E-03	1.04E-03
CHILD:	1.34E-03	1.34E-03	6.69E-03	1.34E-03	1.34E-03	1.34E-03	1.34E-03
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.67E-06	9.67E-06	4.84E-05	9.67E-06	9.67E-06	9.67E-06	9.67E-06
TEEN:	1.05E-05	1.05E-05	5.27E-05	1.05E-05	1.05E-05	1.05E-05	1.05E-05
CHILD:	1.35E-05	1.35E-05	6.77E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.77E-04	1.77E-04	8.85E-04	1.77E-04	1.77E-04	1.77E-04	1.77E-04
TEEN:	1.92E-04	1.92E-04	9.61E-04	1.92E-04	1.92E-04	1.92E-04	1.92E-04
CHILD:	2.56E-04	2.56E-04	1.28E-03	2.56E-04	2.56E-04	2.56E-04	2.56E-04
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.79E-06	1.79E-06	8.96E-06	1.79E-06	1.79E-06	1.79E-06	1.79E-06
TEEN:	1.95E-06	1.95E-06	9.73E-06	1.95E-06	1.95E-06	1.95E-06	1.95E-06
CHILD:	2.59E-06	2.59E-06	1.30E-05	2.59E-06	2.59E-06	2.59E-06	2.59E-06
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NA24

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.86E-14	2.86E-14	2.86E-14	2.86E-14	2.86E-14	2.86E-14	2.86E-14
TEEN:	2.95E-14	2.95E-14	2.95E-14	2.95E-14	2.95E-14	2.95E-14	2.95E-14
CHILD:	3.20E-14	3.20E-14	3.20E-14	3.20E-14	3.20E-14	3.20E-14	3.20E-14
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.56E-19	9.56E-19	9.56E-19	9.56E-19	9.56E-19	9.56E-19	9.56E-19
TEEN:	9.86E-19	9.86E-19	9.86E-19	9.86E-19	9.86E-19	9.86E-19	9.86E-19
CHILD:	1.07E-18	1.07E-18	1.07E-18	1.07E-18	1.07E-18	1.07E-18	1.07E-18
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.09E-20	1.09E-20	1.09E-20	1.09E-20	1.09E-20	1.09E-20	1.09E-20
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.46E-19	6.46E-19	6.46E-19	6.46E-19	6.46E-19	6.46E-19	6.46E-19
TEEN:	6.64E-19	6.64E-19	6.64E-19	6.64E-19	6.64E-19	6.64E-19	6.64E-19
CHILD:	7.49E-19	7.49E-19	7.49E-19	7.49E-19	7.49E-19	7.49E-19	7.49E-19
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	9.10E-17	1.06E-16
TEEN:	5.08E-16	5.89E-16
CHILD:	1.06E-16	1.23E-16
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	4.54E-18	5.27E-18
TEEN:	2.54E-17	2.94E-17
CHILD:	5.30E-18	6.15E-18
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.15E-19	1.33E-19
TEEN:	6.42E-19	7.45E-19
CHILD:	1.34E-19	1.56E-19
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : P32

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.31E-02	6.72E-02	5.98E-01	3.72E-02	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.52E-02	5.47E-02	6.51E-01	4.03E-02	0.00E+00	0.00E+00	0.00E+00
CHILD:	3.24E-02	2.32E-02	8.39E-01	3.93E-02	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.35E-04	9.73E-04	8.65E-03	5.38E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.66E-04	7.93E-04	9.43E-03	5.84E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	4.69E-04	3.36E-04	1.22E-02	5.69E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.39E-06	9.85E-06	8.76E-05	5.45E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.70E-06	8.02E-06	9.55E-05	5.91E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	4.74E-06	3.40E-06	1.23E-04	5.76E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.24E-05	2.40E-04	2.13E-03	1.33E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	8.98E-05	1.95E-04	2.32E-03	1.44E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.19E-04	8.56E-05	3.10E-03	1.45E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.34E-07	2.43E-06	2.16E-05	1.34E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	9.09E-07	1.97E-06	2.35E-05	1.45E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.21E-06	8.67E-07	3.14E-05	1.47E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CR51

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.54E-08	1.14E-05	0.00E+00	0.00E+00	1.00E-08	2.71E-08	6.02E-08
TEEN:	4.68E-08	7.86E-06	0.00E+00	0.00E+00	1.03E-08	2.60E-08	6.68E-08
CHILD:	4.99E-08	2.65E-06	0.00E+00	0.00E+00	7.57E-09	2.77E-08	5.06E-08
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.53E-09	1.14E-06	0.00E+00	0.00E+00	9.99E-10	2.71E-09	6.02E-09
TEEN:	4.67E-09	7.85E-07	0.00E+00	0.00E+00	1.02E-09	2.60E-09	6.67E-09
CHILD:	4.98E-09	2.64E-07	0.00E+00	0.00E+00	7.56E-10	2.77E-09	5.05E-09
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.59E-11	1.15E-08	0.00E+00	0.00E+00	1.01E-11	2.74E-11	6.09E-11
TEEN:	4.73E-11	7.95E-09	0.00E+00	0.00E+00	1.04E-11	2.63E-11	6.76E-11
CHILD:	5.04E-11	2.68E-09	0.00E+00	0.00E+00	7.65E-12	2.80E-11	5.11E-11
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.40E-09	1.36E-06	0.00E+00	0.00E+00	1.19E-09	3.23E-09	7.16E-09
TEEN:	5.55E-09	9.33E-07	0.00E+00	0.00E+00	1.22E-09	3.08E-09	7.92E-09
CHILD:	6.14E-09	3.26E-07	0.00E+00	0.00E+00	9.31E-10	3.41E-09	6.22E-09
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.46E-11	1.37E-08	0.00E+00	0.00E+00	1.20E-11	3.27E-11	7.25E-11
TEEN:	5.62E-11	9.44E-09	0.00E+00	0.00E+00	1.23E-11	3.12E-11	8.02E-11
CHILD:	6.21E-11	3.30E-09	0.00E+00	0.00E+00	9.43E-12	3.45E-11	6.30E-11
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	6.11E-09	7.22E-09
TEEN:	3.41E-08	4.03E-08
CHILD:	7.12E-09	8.42E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.05E-10	3.60E-10
TEEN:	1.70E-09	2.01E-09
CHILD:	3.56E-10	4.20E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	7.72E-12	9.12E-12
TEEN:	4.31E-11	5.09E-11
CHILD:	9.00E-12	1.06E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MN54

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.41E-04	7.08E-03	0.00E+00	2.31E-03	6.88E-04	0.00E+00	0.00E+00
TEEN:	4.51E-04	4.66E-03	0.00E+00	2.27E-03	6.78E-04	0.00E+00	0.00E+00
CHILD:	4.74E-04	1.49E-03	0.00E+00	1.78E-03	4.99E-04	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.03E-05	4.86E-04	0.00E+00	1.59E-04	4.72E-05	0.00E+00	0.00E+00
TEEN:	3.10E-05	3.20E-04	0.00E+00	1.56E-04	4.66E-05	0.00E+00	0.00E+00
CHILD:	3.25E-05	1.02E-04	0.00E+00	1.22E-04	3.42E-05	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.07E-07	4.92E-06	0.00E+00	1.61E-06	4.78E-07	0.00E+00	0.00E+00
TEEN:	3.13E-07	3.24E-06	0.00E+00	1.58E-06	4.72E-07	0.00E+00	0.00E+00
CHILD:	3.29E-07	1.04E-06	0.00E+00	1.24E-06	3.47E-07	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.24E-06	8.42E-05	0.00E+00	2.75E-05	8.18E-06	0.00E+00	0.00E+00
TEEN:	5.35E-06	5.53E-05	0.00E+00	2.70E-05	8.05E-06	0.00E+00	0.00E+00
CHILD:	5.83E-06	1.84E-05	0.00E+00	2.19E-05	6.14E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.31E-08	8.52E-07	0.00E+00	2.78E-07	8.28E-08	0.00E+00	0.00E+00
TEEN:	5.41E-08	5.60E-07	0.00E+00	2.73E-07	8.14E-08	0.00E+00	0.00E+00
CHILD:	5.90E-08	1.86E-07	0.00E+00	2.22E-07	6.21E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.63E-05	3.08E-05
TEEN:	1.47E-04	1.72E-04
CHILD:	3.06E-05	3.59E-05
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.31E-06	1.54E-06
TEEN:	7.32E-06	8.58E-06
CHILD:	1.53E-06	1.79E-06
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	3.32E-08	3.89E-08
TEEN:	1.85E-07	2.17E-07
CHILD:	3.87E-08	4.54E-08
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MN56

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : FE55

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.57E-04	3.87E-04	9.76E-04	6.74E-04	0.00E+00	0.00E+00	3.76E-04
TEEN:	1.69E-04	3.14E-04	1.02E-03	7.24E-04	0.00E+00	0.00E+00	4.59E-04
CHILD:	2.20E-04	1.32E-04	1.34E-03	7.11E-04	0.00E+00	0.00E+00	4.02E-04
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.35E-04	5.79E-04	1.46E-03	1.01E-03	0.00E+00	0.00E+00	5.63E-04
TEEN:	2.53E-04	4.70E-04	1.53E-03	1.09E-03	0.00E+00	0.00E+00	6.88E-04
CHILD:	3.30E-04	1.97E-04	2.01E-03	1.07E-03	0.00E+00	0.00E+00	6.02E-04
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.38E-06	5.86E-06	1.48E-05	1.02E-05	0.00E+00	0.00E+00	5.70E-06
TEEN:	2.56E-06	4.75E-06	1.55E-05	1.10E-05	0.00E+00	0.00E+00	6.97E-06
CHILD:	3.34E-06	2.00E-06	2.03E-05	1.08E-05	0.00E+00	0.00E+00	6.10E-06
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.74E-04	9.19E-04	2.32E-03	1.60E-03	0.00E+00	0.00E+00	8.94E-04
TEEN:	4.01E-04	7.44E-04	2.42E-03	1.72E-03	0.00E+00	0.00E+00	1.09E-03
CHILD:	5.42E-04	3.24E-04	3.30E-03	1.75E-03	0.00E+00	0.00E+00	9.89E-04
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.78E-06	9.31E-06	2.35E-05	1.62E-05	0.00E+00	0.00E+00	9.05E-06
TEEN:	4.06E-06	7.53E-06	2.45E-05	1.74E-05	0.00E+00	0.00E+00	1.10E-05
CHILD:	5.49E-06	3.28E-06	3.34E-05	1.77E-05	0.00E+00	0.00E+00	1.00E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : FE59

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.15E-05	5.35E-04	6.83E-05	1.60E-04	0.00E+00	0.00E+00	4.48E-05
TEEN:	6.34E-05	3.88E-04	7.04E-05	1.64E-04	0.00E+00	0.00E+00	5.18E-05
CHILD:	6.88E-05	1.44E-04	8.53E-05	1.38E-04	0.00E+00	0.00E+00	4.00E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.22E-05	8.01E-04	1.02E-04	2.40E-04	0.00E+00	0.00E+00	6.72E-05
TEEN:	9.50E-05	5.82E-04	1.05E-04	2.46E-04	0.00E+00	0.00E+00	7.76E-05
CHILD:	1.03E-04	2.15E-04	1.28E-04	2.07E-04	0.00E+00	0.00E+00	5.99E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.33E-07	8.11E-06	1.04E-06	2.43E-06	0.00E+00	0.00E+00	6.80E-07
TEEN:	9.62E-07	5.89E-06	1.07E-06	2.49E-06	0.00E+00	0.00E+00	7.85E-07
CHILD:	1.04E-06	2.18E-06	1.29E-06	2.09E-06	0.00E+00	0.00E+00	6.07E-07
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.46E-04	1.27E-03	1.62E-04	3.82E-04	0.00E+00	0.00E+00	1.07E-04
TEEN:	1.50E-04	9.21E-04	1.67E-04	3.90E-04	0.00E+00	0.00E+00	1.23E-04
CHILD:	1.69E-04	3.54E-04	2.10E-04	3.40E-04	0.00E+00	0.00E+00	9.85E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.48E-06	1.29E-05	1.64E-06	3.86E-06	0.00E+00	0.00E+00	1.08E-06
TEEN:	1.52E-06	9.33E-06	1.69E-06	3.94E-06	0.00E+00	0.00E+00	1.24E-06
CHILD:	1.71E-06	3.58E-06	2.12E-06	3.44E-06	0.00E+00	0.00E+00	9.97E-07
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	6.52E-07	7.66E-07
TEEN:	3.64E-06	4.28E-06
CHILD:	7.61E-07	8.94E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.26E-08	3.83E-08
TEEN:	1.82E-07	2.14E-07
CHILD:	3.80E-08	4.46E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	8.24E-10	9.68E-10
TEEN:	4.60E-09	5.41E-09
CHILD:	9.62E-10	1.13E-09
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CO58

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.26E-05	2.04E-04	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.31E-05	1.38E-04	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.45E-05	4.66E-05	0.00E+00	7.99E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.25E-06	2.04E-05	0.00E+00	1.01E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.30E-06	1.38E-05	0.00E+00	9.99E-07	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.44E-06	4.66E-06	0.00E+00	7.98E-07	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.28E-08	2.06E-07	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.33E-08	1.39E-07	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.47E-08	4.71E-08	0.00E+00	8.08E-09	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.37E-06	4.85E-05	0.00E+00	2.39E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	5.47E-06	3.27E-05	0.00E+00	2.37E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	6.02E-06	1.15E-05	0.00E+00	1.97E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.43E-08	4.91E-07	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00
TEEN:	5.54E-08	3.31E-07	0.00E+00	2.40E-08	0.00E+00	0.00E+00	0.00E+00
CHILD:	6.09E-08	1.16E-07	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.55E-06	1.81E-06
TEEN:	8.63E-06	1.01E-05
CHILD:	1.80E-06	2.11E-06
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	7.72E-08	9.04E-08
TEEN:	4.31E-07	5.05E-07
CHILD:	9.00E-08	1.05E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.95E-09	2.29E-09
TEEN:	1.09E-08	1.28E-08
CHILD:	2.28E-09	2.67E-09
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CO60

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.39E-03	1.18E-02	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.42E-03	8.21E-03	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.51E-03	2.84E-03	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.39E-04	1.18E-03	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.42E-04	8.20E-04	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.51E-04	2.83E-04	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.41E-06	1.20E-05	0.00E+00	6.37E-07	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.44E-06	8.30E-06	0.00E+00	6.38E-07	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.53E-06	2.87E-06	0.00E+00	5.18E-07	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.31E-04	2.82E-03	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.37E-04	1.95E-03	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	3.72E-04	6.98E-04	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.35E-06	2.85E-05	0.00E+00	1.52E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.41E-06	1.97E-05	0.00E+00	1.51E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	3.76E-06	7.06E-06	0.00E+00	1.28E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.90E-03	2.23E-03
TEEN:	1.06E-02	1.25E-02
CHILD:	2.21E-03	2.60E-03
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	9.48E-05	1.11E-04
TEEN:	5.29E-04	6.22E-04
CHILD:	1.11E-04	1.30E-04
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.40E-06	2.82E-06
TEEN:	1.34E-05	1.58E-05
CHILD:	2.80E-06	3.29E-06
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NI63

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.31E-03	3.15E-03	2.18E-01	1.51E-02	0.00E+00	0.00E+00	0.00E+00
TEEN:	7.66E-03	2.54E-03	2.26E-01	1.60E-02	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.01E-02	1.07E-03	2.96E-01	1.59E-02	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.65E-04	1.57E-04	1.09E-02	7.54E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.82E-04	1.27E-04	1.13E-02	7.97E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.03E-04	5.33E-05	1.48E-02	7.92E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.69E-06	1.59E-06	1.10E-04	7.63E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	3.87E-06	1.28E-06	1.14E-04	8.07E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.09E-06	5.40E-07	1.50E-04	8.01E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.17E-04	9.36E-05	6.47E-03	4.49E-04	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.27E-04	7.53E-05	6.70E-03	4.73E-04	0.00E+00	0.00E+00	0.00E+00
CHILD:	3.10E-04	3.28E-05	9.11E-03	4.88E-04	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.20E-06	9.48E-07	6.55E-05	4.54E-06	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.30E-06	7.62E-07	6.78E-05	4.79E-06	0.00E+00	0.00E+00	0.00E+00
CHILD:	3.14E-06	3.33E-07	9.22E-05	4.94E-06	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NI65

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CU64

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.35E-17	2.45E-15	0.00E+00	2.88E-17	7.26E-17	0.00E+00	0.00E+00
TEEN:	1.43E-17	2.35E-15	0.00E+00	3.03E-17	7.67E-17	0.00E+00	0.00E+00
CHILD:	1.68E-17	1.31E-15	0.00E+00	2.78E-17	6.73E-17	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.05E-18	1.64E-15	0.00E+00	1.93E-17	4.86E-17	0.00E+00	0.00E+00
TEEN:	9.54E-18	1.57E-15	0.00E+00	2.03E-17	5.13E-17	0.00E+00	0.00E+00
CHILD:	1.12E-17	8.74E-16	0.00E+00	1.86E-17	4.50E-17	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.16E-20	1.66E-17	0.00E+00	1.95E-19	4.92E-19	0.00E+00	0.00E+00
TEEN:	9.65E-20	1.59E-17	0.00E+00	2.05E-19	5.19E-19	0.00E+00	0.00E+00
CHILD:	1.14E-19	8.85E-18	0.00E+00	1.89E-19	4.56E-19	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.46E-18	9.92E-16	0.00E+00	1.16E-17	2.93E-17	0.00E+00	0.00E+00
TEEN:	5.75E-18	9.47E-16	0.00E+00	1.22E-17	3.09E-17	0.00E+00	0.00E+00
CHILD:	7.03E-18	5.46E-16	0.00E+00	1.16E-17	2.81E-17	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.53E-20	1.00E-17	0.00E+00	1.18E-19	2.97E-19	0.00E+00	0.00E+00
TEEN:	5.82E-20	9.59E-18	0.00E+00	1.24E-19	3.13E-19	0.00E+00	0.00E+00
CHILD:	7.12E-20	5.53E-18	0.00E+00	1.18E-19	2.85E-19	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.32E-19	2.63E-19
TEEN:	1.30E-18	1.47E-18
CHILD:	2.71E-19	3.07E-19
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.16E-20	1.32E-20
TEEN:	6.48E-20	7.35E-20
CHILD:	1.35E-20	1.53E-20
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZN65

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.39E-02	1.93E-02	9.64E-03	3.07E-02	2.05E-02	0.00E+00	0.00E+00
TEEN:	1.42E-02	1.29E-02	8.75E-03	3.04E-02	1.94E-02	0.00E+00	0.00E+00
CHILD:	1.49E-02	4.20E-03	8.97E-03	2.39E-02	1.51E-02	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.93E-04	9.65E-04	4.82E-04	1.53E-03	1.02E-03	0.00E+00	0.00E+00
TEEN:	7.07E-04	6.42E-04	4.37E-04	1.52E-03	9.70E-04	0.00E+00	0.00E+00
CHILD:	7.42E-04	2.10E-04	4.48E-04	1.19E-03	7.52E-04	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.01E-06	9.77E-06	4.88E-06	1.55E-05	1.04E-05	0.00E+00	0.00E+00
TEEN:	7.16E-06	6.50E-06	4.42E-06	1.53E-05	9.82E-06	0.00E+00	0.00E+00
CHILD:	7.51E-06	2.12E-06	4.53E-06	1.21E-05	7.61E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.12E-03	5.75E-03	2.87E-03	9.12E-03	6.10E-03	0.00E+00	0.00E+00
TEEN:	4.20E-03	3.81E-03	2.59E-03	9.00E-03	5.76E-03	0.00E+00	0.00E+00
CHILD:	4.57E-03	1.29E-03	2.76E-03	7.35E-03	4.63E-03	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.17E-05	5.82E-05	2.90E-05	9.23E-05	6.18E-05	0.00E+00	0.00E+00
TEEN:	4.25E-05	3.86E-05	2.62E-05	9.11E-05	5.83E-05	0.00E+00	0.00E+00
CHILD:	4.63E-05	1.31E-05	2.79E-05	7.44E-05	4.69E-05	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.12E-05	1.29E-05
TEEN:	6.24E-05	7.18E-05
CHILD:	1.30E-05	1.50E-05
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	5.58E-07	6.42E-07
TEEN:	3.12E-06	3.58E-06
CHILD:	6.51E-07	7.49E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.41E-08	1.62E-08
TEEN:	7.89E-08	9.07E-08
CHILD:	1.65E-08	1.90E-08
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZN69

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR83

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR84

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR85

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB86

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.39E-04	3.97E-04	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.02E-03	3.21E-04	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.29E-03	1.35E-04	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.95E-07	8.23E-08	0.00E+00	4.18E-07	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.11E-07	6.65E-08	0.00E+00	4.49E-07	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.68E-07	2.80E-08	0.00E+00	4.36E-07	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.97E-09	8.33E-10	0.00E+00	4.23E-09	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.14E-09	6.73E-10	0.00E+00	4.55E-09	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.71E-09	2.84E-10	0.00E+00	4.41E-09	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.49E-08	4.01E-08	0.00E+00	2.04E-07	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.03E-07	3.23E-08	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.35E-07	1.41E-08	0.00E+00	2.20E-07	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.60E-10	4.06E-10	0.00E+00	2.06E-09	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.04E-09	3.27E-10	0.00E+00	2.21E-09	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.37E-09	1.43E-10	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	6.65E-09	7.60E-09
TEEN:	3.71E-08	4.24E-08
CHILD:	7.76E-09	8.86E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.32E-10	3.79E-10
TEEN:	1.85E-09	2.12E-09
CHILD:	3.87E-10	4.43E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	8.40E-12	9.60E-12
TEEN:	4.69E-11	5.36E-11
CHILD:	9.80E-12	1.12E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB88

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB89

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR89

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.85E-05	2.71E-04	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	5.27E-05	2.19E-04	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	6.80E-05	9.22E-05	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.62E-07	9.03E-07	5.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.75E-07	7.30E-07	6.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.26E-07	3.07E-07	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.64E-09	9.14E-09	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.78E-09	7.39E-09	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.29E-09	3.11E-09	8.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.85E-07	2.15E-06	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	4.17E-07	1.73E-06	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.58E-07	7.56E-07	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.89E-09	2.18E-08	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	4.22E-09	1.75E-08	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.65E-09	7.65E-09	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	6.00E-11	6.97E-11
TEEN:	3.35E-10	3.89E-10
CHILD:	7.01E-11	8.13E-11
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.00E-12	3.48E-12
TEEN:	1.67E-11	1.94E-11
CHILD:	3.50E-12	4.06E-12
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	7.59E-14	8.81E-14
TEEN:	4.24E-13	4.92E-13
CHILD:	8.85E-14	1.03E-13
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR90

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.47E-01	8.79E-02	3.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.27E-01	7.13E-02	2.54E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.69E-01	3.02E-02	2.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.49E-03	2.93E-04	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.09E-03	2.37E-04	8.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.89E-03	1.01E-04	7.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.52E-05	2.96E-06	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.11E-05	2.40E-06	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.92E-05	1.02E-06	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.92E-03	6.97E-04	2.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	4.96E-03	5.63E-04	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	4.66E-03	2.48E-04	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.99E-05	7.05E-06	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	5.02E-05	5.70E-06	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	4.72E-05	2.51E-06	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR91

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.72E-20	5.56E-18	1.17E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	5.04E-20	5.75E-18	1.27E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	6.13E-20	3.59E-18	1.63E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	1.85E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	1.91E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	1.19E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	4.41E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	4.54E-20	1.00E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	2.94E-20	1.33E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR92

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y90

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.59E-12	6.28E-07	5.92E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.73E-12	5.30E-07	6.42E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.22E-12	2.37E-07	8.31E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.93E-14	3.13E-08	2.96E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	8.64E-14	2.65E-08	3.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.11E-13	1.18E-08	4.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.03E-16	3.17E-10	2.99E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	8.75E-16	2.68E-10	3.25E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.12E-15	1.20E-10	4.20E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.55E-13	2.99E-07	2.82E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	8.21E-13	2.51E-07	3.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.09E-12	1.16E-07	4.09E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.64E-15	3.02E-09	2.85E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	8.31E-15	2.54E-09	3.09E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.11E-14	1.18E-09	4.14E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.15E-14	2.54E-14
TEEN:	1.20E-13	1.42E-13
CHILD:	2.50E-14	2.96E-14
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.07E-15	1.27E-15
TEEN:	5.98E-15	7.07E-15
CHILD:	1.25E-15	1.48E-15
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.71E-17	3.20E-17
TEEN:	1.51E-16	1.79E-16
CHILD:	3.16E-17	3.74E-17
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y91M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y91

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.05E-08	4.21E-04	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	2.23E-08	3.41E-04	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	2.87E-08	1.43E-04	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.02E-09	2.10E-05	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.11E-09	1.70E-05	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.43E-09	7.14E-06	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.03E-11	2.13E-07	3.87E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.13E-11	1.72E-07	4.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.45E-11	7.23E-08	5.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.73E-09	2.00E-04	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.06E-08	1.62E-04	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.41E-08	7.04E-05	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.85E-11	2.03E-06	3.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.07E-10	1.64E-06	3.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.43E-10	7.12E-07	5.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	3.52E-09	3.96E-09
TEEN:	1.97E-08	2.21E-08
CHILD:	4.11E-09	4.62E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.76E-10	1.98E-10
TEEN:	9.82E-10	1.10E-09
CHILD:	2.05E-10	2.31E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	4.45E-12	5.01E-12
TEEN:	2.48E-11	2.80E-11
CHILD:	5.19E-12	5.84E-12
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y92

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y93

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	7.57E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	7.94E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	4.98E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	3.78E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	3.96E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	2.48E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	3.83E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	4.01E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	2.52E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	3.60E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	3.77E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	2.45E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	3.65E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	3.81E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	2.48E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZR95

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.25E-09	2.46E-05	2.42E-08	7.76E-09	1.22E-08	0.00E+00	0.00E+00
TEEN:	5.42E-09	1.82E-05	2.50E-08	7.88E-09	1.16E-08	0.00E+00	0.00E+00
CHILD:	5.93E-09	6.95E-06	3.03E-08	6.67E-09	9.54E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.59E-08	7.44E-05	7.32E-08	2.35E-08	3.68E-08	0.00E+00	0.00E+00
TEEN:	1.64E-08	5.50E-05	7.56E-08	2.38E-08	3.50E-08	0.00E+00	0.00E+00
CHILD:	1.80E-08	2.10E-05	9.18E-08	2.02E-08	2.89E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.61E-10	7.53E-07	7.41E-10	2.38E-10	3.73E-10	0.00E+00	0.00E+00
TEEN:	1.66E-10	5.57E-07	7.65E-10	2.41E-10	3.55E-10	0.00E+00	0.00E+00
CHILD:	1.82E-10	2.13E-07	9.29E-10	2.04E-10	2.92E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.51E-09	7.09E-06	6.97E-09	2.24E-09	3.51E-09	0.00E+00	0.00E+00
TEEN:	1.56E-09	5.23E-06	7.18E-09	2.27E-09	3.33E-09	0.00E+00	0.00E+00
CHILD:	1.77E-09	2.07E-06	9.04E-09	1.99E-09	2.85E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.53E-11	7.17E-08	7.06E-11	2.26E-11	3.55E-11	0.00E+00	0.00E+00
TEEN:	1.58E-11	5.29E-08	7.27E-11	2.29E-11	3.37E-11	0.00E+00	0.00E+00
CHILD:	1.79E-11	2.10E-08	9.16E-11	2.01E-11	2.88E-11	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	8.92E-07	1.03E-06
TEEN:	4.98E-06	5.78E-06
CHILD:	1.04E-06	1.21E-06
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	4.45E-08	5.17E-08
TEEN:	2.49E-07	2.88E-07
CHILD:	5.20E-08	6.03E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.13E-09	1.31E-09
TEEN:	6.29E-09	7.30E-09
CHILD:	1.31E-09	1.53E-09
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZR97

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.30E-19	4.27E-13	6.83E-18	1.38E-18	2.08E-18	0.00E+00	0.00E+00
TEEN:	6.69E-19	3.93E-13	7.34E-18	1.45E-18	2.20E-18	0.00E+00	0.00E+00
CHILD:	7.96E-19	2.04E-13	9.33E-18	1.35E-18	1.94E-18	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.91E-18	1.29E-12	2.07E-17	4.17E-18	6.30E-18	0.00E+00	0.00E+00
TEEN:	2.02E-18	1.19E-12	2.22E-17	4.40E-18	6.66E-18	0.00E+00	0.00E+00
CHILD:	2.41E-18	6.18E-13	2.82E-17	4.08E-18	5.86E-18	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.93E-20	1.31E-14	2.09E-19	4.22E-20	6.38E-20	0.00E+00	0.00E+00
TEEN:	2.05E-20	1.20E-14	2.25E-19	4.45E-20	6.75E-20	0.00E+00	0.00E+00
CHILD:	2.44E-20	6.26E-15	2.86E-19	4.13E-20	5.93E-20	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.82E-19	1.23E-13	1.97E-18	3.97E-19	6.00E-19	0.00E+00	0.00E+00
TEEN:	1.92E-19	1.13E-13	2.11E-18	4.18E-19	6.33E-19	0.00E+00	0.00E+00
CHILD:	2.37E-19	6.09E-14	2.78E-18	4.02E-19	5.78E-19	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	1.25E-15	1.99E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	1.14E-15	2.14E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	6.17E-16	2.82E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.46E-16	1.70E-16
TEEN:	8.15E-16	9.48E-16
CHILD:	1.70E-16	1.98E-16
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	7.28E-18	8.48E-18
TEEN:	4.07E-17	4.73E-17
CHILD:	8.50E-18	9.89E-18
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.84E-19	2.15E-19
TEEN:	1.03E-18	1.20E-18
CHILD:	2.15E-19	2.50E-19
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NB95

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.50E-06	7.34E-02	2.17E-05	1.21E-05	1.20E-05	0.00E+00	0.00E+00
TEEN:	6.69E-06	5.19E-02	2.19E-05	1.21E-05	1.18E-05	0.00E+00	0.00E+00
CHILD:	7.19E-06	1.86E-02	2.58E-05	1.01E-05	9.45E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.25E-07	3.67E-03	1.09E-06	6.04E-07	5.97E-07	0.00E+00	0.00E+00
TEEN:	3.34E-07	2.59E-03	1.09E-06	6.07E-07	5.88E-07	0.00E+00	0.00E+00
CHILD:	3.59E-07	9.29E-04	1.29E-06	5.03E-07	4.72E-07	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.29E-09	3.71E-05	1.10E-08	6.12E-09	6.04E-09	0.00E+00	0.00E+00
TEEN:	3.38E-09	2.63E-05	1.11E-08	6.14E-09	5.95E-09	0.00E+00	0.00E+00
CHILD:	3.64E-09	9.41E-06	1.31E-08	5.09E-09	4.78E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.58E-10	2.91E-06	8.62E-10	4.79E-10	4.74E-10	0.00E+00	0.00E+00
TEEN:	2.64E-10	2.05E-06	8.66E-10	4.80E-10	4.65E-10	0.00E+00	0.00E+00
CHILD:	2.95E-10	7.63E-07	1.06E-09	4.13E-10	3.88E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.61E-12	2.95E-08	8.72E-12	4.85E-12	4.80E-12	0.00E+00	0.00E+00
TEEN:	2.68E-12	2.08E-08	8.76E-12	4.86E-12	4.71E-12	0.00E+00	0.00E+00
CHILD:	2.99E-12	7.73E-09	1.07E-11	4.18E-12	3.92E-12	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.43E-07	2.86E-07
TEEN:	1.36E-06	1.60E-06
CHILD:	2.84E-07	3.34E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.22E-08	1.43E-08
TEEN:	6.79E-08	7.98E-08
CHILD:	1.42E-08	1.67E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	3.08E-10	3.62E-10
TEEN:	1.72E-09	2.02E-09
CHILD:	3.59E-10	4.22E-10
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MO99

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.31E-09	2.82E-08	0.00E+00	1.22E-08	2.75E-08	0.00E+00	0.00E+00
TEEN:	2.47E-09	2.32E-08	0.00E+00	1.30E-08	2.97E-08	0.00E+00	0.00E+00
CHILD:	3.05E-09	1.02E-08	0.00E+00	1.23E-08	2.63E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.16E-10	1.41E-09	0.00E+00	6.07E-10	1.37E-09	0.00E+00	0.00E+00
TEEN:	1.23E-10	1.16E-09	0.00E+00	6.47E-10	1.48E-09	0.00E+00	0.00E+00
CHILD:	1.52E-10	5.09E-10	0.00E+00	6.16E-10	1.31E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.17E-12	1.42E-11	0.00E+00	6.15E-12	1.39E-11	0.00E+00	0.00E+00
TEEN:	1.25E-12	1.17E-11	0.00E+00	6.55E-12	1.50E-11	0.00E+00	0.00E+00
CHILD:	1.54E-12	5.15E-12	0.00E+00	6.23E-12	1.33E-11	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.75E-11	3.35E-10	0.00E+00	1.45E-10	3.27E-10	0.00E+00	0.00E+00
TEEN:	2.93E-11	2.75E-10	0.00E+00	1.54E-10	3.52E-10	0.00E+00	0.00E+00
CHILD:	3.75E-11	1.25E-10	0.00E+00	1.52E-10	3.24E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.78E-13	3.39E-12	0.00E+00	1.46E-12	3.31E-12	0.00E+00	0.00E+00
TEEN:	2.97E-13	2.79E-12	0.00E+00	1.56E-12	3.56E-12	0.00E+00	0.00E+00
CHILD:	3.80E-13	1.27E-12	0.00E+00	1.54E-12	3.28E-12	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.17E-11	2.51E-11
TEEN:	1.21E-10	1.40E-10
CHILD:	2.53E-11	2.93E-11
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.08E-12	1.25E-12
TEEN:	6.04E-12	7.00E-12
CHILD:	1.26E-12	1.46E-12
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.74E-14	3.17E-14
TEEN:	1.53E-13	1.77E-13
CHILD:	3.20E-14	3.70E-14
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TC99M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TC101

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU103

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.07E-07	2.91E-05	2.49E-07	0.00E+00	9.50E-07	0.00E+00	0.00E+00
TEEN:	1.12E-07	2.18E-05	2.61E-07	0.00E+00	9.22E-07	0.00E+00	0.00E+00
CHILD:	1.24E-07	8.36E-06	3.23E-07	0.00E+00	8.14E-07	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.61E-09	4.35E-07	3.73E-09	0.00E+00	1.42E-08	0.00E+00	0.00E+00
TEEN:	1.67E-09	3.27E-07	3.92E-09	0.00E+00	1.38E-08	0.00E+00	0.00E+00
CHILD:	1.86E-09	1.25E-07	4.84E-09	0.00E+00	1.22E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.63E-11	4.41E-09	3.78E-11	0.00E+00	1.44E-10	0.00E+00	0.00E+00
TEEN:	1.69E-11	3.31E-09	3.97E-11	0.00E+00	1.40E-10	0.00E+00	0.00E+00
CHILD:	1.88E-11	1.27E-09	4.90E-11	0.00E+00	1.23E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.28E-07	3.46E-05	2.96E-07	0.00E+00	1.13E-06	0.00E+00	0.00E+00
TEEN:	1.33E-07	2.59E-05	3.10E-07	0.00E+00	1.09E-06	0.00E+00	0.00E+00
CHILD:	1.53E-07	1.03E-05	3.98E-07	0.00E+00	1.00E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.29E-09	3.50E-07	3.00E-09	0.00E+00	1.14E-08	0.00E+00	0.00E+00
TEEN:	1.34E-09	2.62E-07	3.14E-09	0.00E+00	1.11E-08	0.00E+00	0.00E+00
CHILD:	1.55E-09	1.04E-07	4.03E-09	0.00E+00	1.01E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.22E-07	2.59E-07
TEEN:	1.24E-06	1.44E-06
CHILD:	2.59E-07	3.02E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.11E-08	1.29E-08
TEEN:	6.18E-08	7.21E-08
CHILD:	1.29E-08	1.51E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.80E-10	3.27E-10
TEEN:	1.56E-09	1.83E-09
CHILD:	3.27E-10	3.81E-10
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU105

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU106

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.15E-06	2.63E-03	4.07E-05	0.00E+00	7.86E-05	0.00E+00	0.00E+00
TEEN:	5.57E-06	2.12E-03	4.42E-05	0.00E+00	8.52E-05	0.00E+00	0.00E+00
CHILD:	7.10E-06	8.85E-04	5.69E-05	0.00E+00	7.68E-05	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.71E-08	3.95E-05	6.10E-07	0.00E+00	1.18E-06	0.00E+00	0.00E+00
TEEN:	8.34E-08	3.18E-05	6.62E-07	0.00E+00	1.28E-06	0.00E+00	0.00E+00
CHILD:	1.06E-07	1.33E-05	8.52E-07	0.00E+00	1.15E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.81E-10	3.99E-07	6.17E-09	0.00E+00	1.19E-08	0.00E+00	0.00E+00
TEEN:	8.45E-10	3.21E-07	6.70E-09	0.00E+00	1.29E-08	0.00E+00	0.00E+00
CHILD:	1.08E-09	1.34E-07	8.63E-09	0.00E+00	1.16E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.12E-06	3.13E-03	4.84E-05	0.00E+00	9.34E-05	0.00E+00	0.00E+00
TEEN:	6.61E-06	2.51E-03	5.24E-05	0.00E+00	1.01E-04	0.00E+00	0.00E+00
CHILD:	8.73E-06	1.09E-03	7.00E-05	0.00E+00	9.45E-05	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.20E-08	3.17E-05	4.90E-07	0.00E+00	9.46E-07	0.00E+00	0.00E+00
TEEN:	6.69E-08	2.54E-05	5.31E-07	0.00E+00	1.02E-06	0.00E+00	0.00E+00
CHILD:	8.84E-08	1.10E-05	7.08E-07	0.00E+00	9.57E-07	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	9.36E-06	1.12E-05
TEEN:	5.23E-05	6.27E-05
CHILD:	1.09E-05	1.31E-05
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	4.67E-07	5.61E-07
TEEN:	2.61E-06	3.13E-06
CHILD:	5.45E-07	6.54E-07
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.18E-08	1.42E-08
TEEN:	6.61E-08	7.93E-08
CHILD:	1.38E-08	1.66E-08
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : AG110M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	5.29E-05	6.18E-05
TEEN:	2.96E-04	3.45E-04
CHILD:	6.18E-05	7.21E-05
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	2.64E-06	3.08E-06
TEEN:	1.48E-05	1.72E-05
CHILD:	3.08E-06	3.60E-06
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	6.69E-08	7.81E-08
TEEN:	3.74E-07	4.36E-07
CHILD:	7.81E-08	9.11E-08
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE125M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.09E-05	9.20E-04	2.30E-04	8.35E-05	9.37E-04	6.93E-05	0.00E+00
TEEN:	3.35E-05	7.40E-04	2.51E-04	9.04E-05	0.00E+00	7.01E-05	0.00E+00
CHILD:	4.29E-05	3.11E-04	3.22E-04	8.73E-05	0.00E+00	9.04E-05	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.85E-08	1.15E-06	2.88E-07	1.04E-07	1.17E-06	8.65E-08	0.00E+00
TEEN:	4.19E-08	9.24E-07	3.13E-07	1.13E-07	0.00E+00	8.75E-08	0.00E+00
CHILD:	5.36E-08	3.88E-07	4.02E-07	1.09E-07	0.00E+00	1.13E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.90E-10	1.16E-08	2.91E-09	1.06E-09	1.18E-08	8.76E-10	0.00E+00
TEEN:	4.24E-10	9.36E-09	3.17E-09	1.14E-09	0.00E+00	8.86E-10	0.00E+00
CHILD:	5.43E-10	3.93E-09	4.07E-09	1.10E-09	0.00E+00	1.14E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.18E-08	2.74E-06	6.85E-07	2.48E-07	2.79E-06	2.06E-07	0.00E+00
TEEN:	9.95E-08	2.20E-06	7.44E-07	2.68E-07	0.00E+00	2.08E-07	0.00E+00
CHILD:	1.32E-07	9.56E-07	9.91E-07	2.69E-07	0.00E+00	2.78E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.29E-10	2.77E-08	6.93E-09	2.51E-09	2.82E-08	2.09E-09	0.00E+00
TEEN:	1.01E-09	2.22E-08	7.53E-09	2.71E-09	0.00E+00	2.10E-09	0.00E+00
CHILD:	1.34E-09	9.68E-09	1.00E-08	2.72E-09	0.00E+00	2.82E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	5.05E-09	6.92E-09
TEEN:	2.82E-08	3.86E-08
CHILD:	5.89E-09	8.08E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	2.52E-10	3.46E-10
TEEN:	1.41E-09	1.93E-09
CHILD:	2.94E-10	4.03E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	6.38E-12	8.75E-12
TEEN:	3.56E-11	4.88E-11
CHILD:	7.44E-12	1.02E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE127M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.43E-04	3.94E-03	1.18E-03	4.20E-04	4.78E-03	3.00E-04	0.00E+00
TEEN:	1.52E-04	3.19E-03	1.28E-03	4.54E-04	5.19E-03	3.04E-04	0.00E+00
CHILD:	1.96E-04	1.34E-03	1.65E-03	4.44E-04	4.70E-03	3.94E-04	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.79E-07	4.92E-06	1.47E-06	5.25E-07	5.96E-06	3.75E-07	0.00E+00
TEEN:	1.90E-07	3.98E-06	1.60E-06	5.67E-07	6.47E-06	3.80E-07	0.00E+00
CHILD:	2.44E-07	1.67E-06	2.06E-06	5.54E-07	5.87E-06	4.92E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.81E-09	4.98E-08	1.49E-08	5.31E-09	6.04E-08	3.80E-09	0.00E+00
TEEN:	1.92E-09	4.03E-08	1.62E-08	5.74E-09	6.55E-08	3.85E-09	0.00E+00
CHILD:	2.47E-09	1.69E-08	2.08E-08	5.61E-09	5.94E-08	4.98E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.26E-07	1.17E-05	3.49E-06	1.25E-06	1.42E-05	8.93E-07	0.00E+00
TEEN:	4.51E-07	9.45E-06	3.79E-06	1.35E-06	1.54E-05	9.02E-07	0.00E+00
CHILD:	6.02E-07	4.11E-06	5.07E-06	1.37E-06	1.45E-05	1.21E-06	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.31E-09	1.19E-07	3.54E-08	1.26E-08	1.44E-07	9.04E-09	0.00E+00
TEEN:	4.57E-09	9.57E-08	3.84E-08	1.36E-08	1.56E-07	9.13E-09	0.00E+00
CHILD:	6.09E-09	4.16E-08	5.13E-08	1.38E-08	1.46E-07	1.23E-08	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	5.99E-10	7.07E-10
TEEN:	3.34E-09	3.95E-09
CHILD:	6.98E-10	8.25E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	2.99E-11	3.53E-11
TEEN:	1.67E-10	1.97E-10
CHILD:	3.49E-11	4.12E-11
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	7.57E-13	8.94E-13
TEEN:	4.22E-12	4.99E-12
CHILD:	8.83E-13	1.04E-12
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE127

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.34E-20	1.58E-17	2.00E-19	7.20E-20	8.16E-19	1.48E-19	0.00E+00
TEEN:	4.72E-20	1.69E-17	2.19E-19	7.77E-20	8.88E-19	1.51E-19	0.00E+00
CHILD:	6.05E-20	1.10E-17	2.82E-19	7.60E-20	8.02E-19	1.95E-19	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	1.97E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	2.11E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	1.37E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	4.70E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	5.02E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	3.39E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE129M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.00E-05	2.55E-03	5.06E-04	1.89E-04	2.11E-03	1.74E-04	0.00E+00
TEEN:	8.64E-05	2.05E-03	5.46E-04	2.03E-04	2.28E-03	1.76E-04	0.00E+00
CHILD:	1.09E-04	8.58E-04	7.04E-04	1.96E-04	2.07E-03	2.27E-04	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.99E-08	3.18E-06	6.31E-07	2.35E-07	2.63E-06	2.17E-07	0.00E+00
TEEN:	1.08E-07	2.56E-06	6.82E-07	2.53E-07	2.85E-06	2.20E-07	0.00E+00
CHILD:	1.36E-07	1.07E-06	8.78E-07	2.45E-07	2.58E-06	2.83E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.01E-09	3.22E-08	6.39E-09	2.38E-09	2.67E-08	2.19E-09	0.00E+00
TEEN:	1.09E-09	2.59E-08	6.90E-09	2.56E-09	2.89E-08	2.23E-09	0.00E+00
CHILD:	1.38E-09	1.08E-08	8.89E-09	2.48E-09	2.61E-08	2.87E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.38E-07	7.57E-06	1.50E-06	5.61E-07	6.27E-06	5.16E-07	0.00E+00
TEEN:	2.56E-07	6.08E-06	1.62E-06	6.01E-07	6.77E-06	5.22E-07	0.00E+00
CHILD:	3.36E-07	2.64E-06	2.16E-06	6.04E-07	6.35E-06	6.98E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.41E-09	7.66E-08	1.52E-08	5.68E-09	6.35E-08	5.23E-09	0.00E+00
TEEN:	2.59E-09	6.15E-08	1.64E-08	6.08E-09	6.86E-08	5.29E-09	0.00E+00
CHILD:	3.40E-09	2.67E-08	2.19E-08	6.12E-09	6.43E-08	7.06E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	3.32E-08	3.88E-08
TEEN:	1.85E-07	2.16E-07
CHILD:	3.87E-08	4.52E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.66E-09	1.94E-09
TEEN:	9.25E-09	1.08E-08
CHILD:	1.93E-09	2.26E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	4.19E-11	4.90E-11
TEEN:	2.34E-10	2.73E-10
CHILD:	4.89E-11	5.71E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE129

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE131M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.88E-10	4.62E-08	9.51E-10	4.65E-10	4.71E-09	7.37E-10	0.00E+00
TEEN:	4.09E-10	3.93E-08	1.02E-09	4.90E-10	5.11E-09	7.37E-10	0.00E+00
CHILD:	4.79E-10	1.82E-08	1.30E-09	4.50E-10	4.35E-09	9.25E-10	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.84E-13	5.77E-11	1.19E-12	5.81E-13	5.88E-12	9.20E-13	0.00E+00
TEEN:	5.10E-13	4.91E-11	1.28E-12	6.12E-13	6.38E-12	9.20E-13	0.00E+00
CHILD:	5.98E-13	2.28E-11	1.62E-12	5.62E-13	5.44E-12	1.15E-12	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.90E-15	5.84E-13	1.20E-14	5.88E-15	5.96E-14	9.31E-15	0.00E+00
TEEN:	5.17E-15	4.97E-13	1.29E-14	6.19E-15	6.46E-14	9.32E-15	0.00E+00
CHILD:	6.05E-15	2.31E-13	1.64E-14	5.69E-15	5.50E-14	1.17E-14	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.15E-12	1.37E-10	2.83E-12	1.38E-12	1.40E-11	2.19E-12	0.00E+00
TEEN:	1.21E-12	1.17E-10	3.03E-12	1.45E-12	1.52E-11	2.19E-12	0.00E+00
CHILD:	1.47E-12	5.61E-11	4.00E-12	1.38E-12	1.34E-11	2.85E-12	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.17E-14	1.39E-12	2.86E-14	1.40E-14	1.42E-13	2.22E-14	0.00E+00
TEEN:	1.23E-14	1.18E-12	3.07E-14	1.47E-14	1.53E-13	2.21E-14	0.00E+00
CHILD:	1.49E-14	5.68E-13	4.05E-14	1.40E-14	1.36E-13	2.88E-14	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.87E-13	3.39E-13
TEEN:	1.60E-12	1.89E-12
CHILD:	3.35E-13	3.95E-13
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.43E-14	1.69E-14
TEEN:	8.01E-14	9.44E-14
CHILD:	1.67E-14	1.97E-14
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	3.63E-16	4.28E-16
TEEN:	2.03E-15	2.39E-15
CHILD:	4.23E-16	4.99E-16
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE131

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE132

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.69E-07	1.86E-05	6.08E-07	3.93E-07	3.79E-06	4.34E-07	0.00E+00
TEEN:	3.82E-07	1.29E-05	6.42E-07	4.06E-07	3.90E-06	4.28E-07	0.00E+00
CHILD:	4.28E-07	3.57E-06	8.01E-07	3.54E-07	3.29E-06	5.16E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.61E-10	2.32E-08	7.59E-10	4.91E-10	4.73E-09	5.42E-10	0.00E+00
TEEN:	4.77E-10	1.61E-08	8.01E-10	5.07E-10	4.87E-09	5.35E-10	0.00E+00
CHILD:	5.34E-10	4.45E-09	1.00E-09	4.42E-10	4.11E-09	6.44E-10	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.67E-12	2.35E-10	7.68E-12	4.97E-12	4.79E-11	5.49E-12	0.00E+00
TEEN:	4.83E-12	1.63E-10	8.11E-12	5.13E-12	4.93E-11	5.41E-12	0.00E+00
CHILD:	5.41E-12	4.51E-11	1.01E-11	4.48E-12	4.16E-11	6.52E-12	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.10E-09	5.53E-08	1.81E-09	1.17E-09	1.13E-08	1.29E-09	0.00E+00
TEEN:	1.13E-09	3.82E-08	1.90E-09	1.20E-09	1.16E-08	1.27E-09	0.00E+00
CHILD:	1.32E-09	1.10E-08	2.46E-09	1.09E-09	1.01E-08	1.59E-09	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.11E-11	5.60E-10	1.83E-11	1.18E-11	1.14E-10	1.31E-11	0.00E+00
TEEN:	1.15E-11	3.86E-10	1.93E-11	1.22E-11	1.17E-10	1.29E-11	0.00E+00
CHILD:	1.33E-11	1.11E-10	2.49E-11	1.10E-11	1.02E-10	1.61E-11	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	4.73E-11	5.56E-11
TEEN:	2.64E-10	3.10E-10
CHILD:	5.51E-11	6.49E-11
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	2.36E-12	2.78E-12
TEEN:	1.32E-11	1.55E-11
CHILD:	2.75E-12	3.24E-12
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	5.97E-14	7.03E-14
TEEN:	3.33E-13	3.92E-13
CHILD:	6.97E-14	8.20E-14
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I130

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.18E-17	1.13E-16	4.45E-17	1.31E-16	2.05E-16	1.11E-14	0.00E+00
TEEN:	5.33E-17	1.03E-16	4.62E-17	1.34E-16	2.06E-16	1.09E-14	0.00E+00
CHILD:	5.88E-17	5.33E-17	5.64E-17	1.14E-16	1.70E-16	1.26E-14	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.72E-18	3.76E-18	1.48E-18	4.37E-18	6.82E-18	3.70E-16	0.00E+00
TEEN:	1.78E-18	3.42E-18	1.54E-18	4.45E-18	6.85E-18	3.63E-16	0.00E+00
CHILD:	1.96E-18	1.78E-18	1.88E-18	3.80E-18	5.68E-18	4.18E-16	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.74E-20	3.81E-20	1.50E-20	4.42E-20	6.90E-20	3.75E-18	0.00E+00
TEEN:	1.80E-20	3.46E-20	1.56E-20	4.50E-20	6.93E-20	3.67E-18	0.00E+00
CHILD:	1.98E-20	1.80E-20	1.90E-20	3.84E-20	5.75E-20	4.23E-18	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.05E-18	4.48E-18	1.76E-18	5.20E-18	8.11E-18	4.41E-16	0.00E+00
TEEN:	2.11E-18	4.06E-18	1.82E-18	5.28E-18	8.13E-18	4.31E-16	0.00E+00
CHILD:	2.41E-18	2.19E-18	2.31E-18	4.68E-18	6.99E-18	5.15E-16	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.08E-20	4.53E-20	1.78E-20	5.26E-20	8.21E-20	4.46E-18	0.00E+00
TEEN:	2.13E-20	4.11E-20	1.85E-20	5.35E-20	8.23E-20	4.36E-18	0.00E+00
CHILD:	2.44E-20	2.21E-20	2.34E-20	4.73E-20	7.08E-20	5.22E-18	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.24E-18	1.51E-18
TEEN:	6.93E-18	8.42E-18
CHILD:	1.45E-18	1.76E-18
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	6.20E-20	7.53E-20
TEEN:	3.46E-19	4.20E-19
CHILD:	7.23E-20	8.78E-20
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	1.06E-20
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I131

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.07E-07	2.34E-07	6.19E-07	8.85E-07	1.52E-06	2.90E-04	0.00E+00
TEEN:	4.99E-07	1.84E-07	6.63E-07	9.28E-07	1.60E-06	2.71E-04	0.00E+00
CHILD:	4.80E-07	7.53E-08	8.41E-07	8.45E-07	1.39E-06	2.80E-04	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.69E-08	7.77E-09	2.06E-08	2.95E-08	5.05E-08	9.65E-06	0.00E+00
TEEN:	1.66E-08	6.11E-09	2.21E-08	3.09E-08	5.32E-08	9.02E-06	0.00E+00
CHILD:	1.60E-08	2.51E-09	2.80E-08	2.81E-08	4.62E-08	9.31E-06	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.71E-10	7.87E-11	2.09E-10	2.98E-10	5.11E-10	9.77E-08	0.00E+00
TEEN:	1.68E-10	6.19E-11	2.23E-10	3.13E-10	5.38E-10	9.13E-08	0.00E+00
CHILD:	1.62E-10	2.54E-11	2.83E-10	2.85E-10	4.68E-10	9.42E-08	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.01E-08	9.25E-09	2.45E-08	3.51E-08	6.01E-08	1.15E-05	0.00E+00
TEEN:	1.97E-08	7.26E-09	2.62E-08	3.67E-08	6.32E-08	1.07E-05	0.00E+00
CHILD:	1.97E-08	3.09E-09	3.45E-08	3.47E-08	5.69E-08	1.15E-05	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.03E-10	9.37E-11	2.48E-10	3.55E-10	6.09E-10	1.16E-07	0.00E+00
TEEN:	2.00E-10	7.35E-11	2.65E-10	3.71E-10	6.39E-10	1.08E-07	0.00E+00
CHILD:	1.99E-10	3.12E-11	3.49E-10	3.51E-10	5.76E-10	1.16E-07	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.78E-09	3.38E-09
TEEN:	1.55E-08	1.89E-08
CHILD:	3.25E-09	3.94E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.39E-10	1.69E-10
TEEN:	7.76E-10	9.42E-10
CHILD:	1.62E-10	1.97E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	3.52E-12	4.27E-12
TEEN:	1.96E-11	2.38E-11
CHILD:	4.10E-12	4.98E-12
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I132

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I133

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.74E-13	8.07E-13	5.16E-13	8.98E-13	1.57E-12	1.32E-10	0.00E+00
TEEN:	2.88E-13	7.15E-13	5.57E-13	9.45E-13	1.66E-12	1.32E-10	0.00E+00
CHILD:	3.31E-13	3.53E-13	7.07E-13	8.75E-13	1.46E-12	1.63E-10	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.12E-15	2.69E-14	1.72E-14	2.99E-14	5.22E-14	4.40E-12	0.00E+00
TEEN:	9.59E-15	2.38E-14	1.85E-14	3.15E-14	5.52E-14	4.39E-12	0.00E+00
CHILD:	1.10E-14	1.17E-14	2.36E-14	2.91E-14	4.85E-14	5.41E-12	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.23E-17	2.72E-16	1.74E-16	3.03E-16	5.28E-16	4.45E-14	0.00E+00
TEEN:	9.71E-17	2.41E-16	1.88E-16	3.18E-16	5.58E-16	4.45E-14	0.00E+00
CHILD:	1.12E-16	1.19E-16	2.38E-16	2.95E-16	4.91E-16	5.48E-14	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.09E-14	3.20E-14	2.05E-14	3.56E-14	6.21E-14	5.23E-12	0.00E+00
TEEN:	1.14E-14	2.83E-14	2.20E-14	3.74E-14	6.55E-14	5.21E-12	0.00E+00
CHILD:	1.36E-14	1.45E-14	2.90E-14	3.59E-14	5.98E-14	6.67E-12	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.10E-16	3.24E-16	2.07E-16	3.60E-16	6.29E-16	5.30E-14	0.00E+00
TEEN:	1.15E-16	2.86E-16	2.23E-16	3.78E-16	6.63E-16	5.28E-14	0.00E+00
CHILD:	1.37E-16	1.46E-16	2.94E-16	3.63E-16	6.05E-16	6.75E-14	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.98E-15	2.41E-15
TEEN:	1.10E-14	1.34E-14
CHILD:	2.31E-15	2.81E-15
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	9.87E-17	1.20E-16
TEEN:	5.51E-16	6.71E-16
CHILD:	1.15E-16	1.40E-16
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.50E-18	3.04E-18
TEEN:	1.40E-17	1.70E-17
CHILD:	2.92E-18	3.55E-18
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I134

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I135

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS134

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.83E-04	1.46E-05	3.51E-04	8.35E-04	2.70E-04	0.00E+00	8.97E-05
TEEN:	3.93E-04	1.05E-05	3.60E-04	8.47E-04	2.69E-04	0.00E+00	1.03E-04
CHILD:	1.50E-04	3.84E-06	4.34E-04	7.12E-04	2.21E-04	0.00E+00	7.92E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.19E-06	8.97E-08	2.15E-06	5.13E-06	1.66E-06	0.00E+00	5.51E-07
TEEN:	2.41E-06	6.46E-08	2.21E-06	5.20E-06	1.65E-06	0.00E+00	6.31E-07
CHILD:	9.22E-07	2.36E-08	2.66E-06	4.37E-06	1.35E-06	0.00E+00	4.86E-07
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.02E-04	2.18E-06	5.22E-05	1.24E-04	4.02E-05	0.00E+00	1.34E-05
TEEN:	5.83E-05	1.56E-06	5.34E-05	1.26E-04	4.00E-05	0.00E+00	1.53E-05
CHILD:	2.31E-05	5.91E-07	6.68E-05	1.10E-04	3.40E-05	0.00E+00	1.22E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.24E-07	1.33E-08	3.21E-07	7.63E-07	2.47E-07	0.00E+00	8.19E-08
TEEN:	3.58E-07	9.60E-09	3.28E-07	7.72E-07	2.45E-07	0.00E+00	9.36E-08
CHILD:	1.42E-07	3.63E-09	4.10E-07	6.73E-07	2.09E-07	0.00E+00	7.48E-08
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.45E-05	1.69E-05
TEEN:	8.08E-05	9.43E-05
CHILD:	1.69E-05	1.97E-05
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.22E-07	2.59E-07
TEEN:	1.24E-06	1.45E-06
CHILD:	2.59E-07	3.02E-07
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS136

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.85E-07	1.55E-07	3.47E-07	1.37E-06	7.61E-07	0.00E+00	1.04E-07
TEEN:	9.21E-07	1.10E-07	3.48E-07	1.37E-06	7.46E-07	0.00E+00	1.18E-07
CHILD:	7.31E-07	3.97E-08	4.11E-07	1.13E-06	6.02E-07	0.00E+00	8.97E-08
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.04E-09	9.54E-10	2.13E-09	8.39E-09	4.67E-09	0.00E+00	6.40E-10
TEEN:	5.65E-09	6.77E-10	2.14E-09	8.41E-09	4.58E-09	0.00E+00	7.22E-10
CHILD:	4.49E-09	2.44E-10	2.52E-09	6.93E-09	3.69E-09	0.00E+00	5.51E-10
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.47E-07	2.31E-08	5.16E-08	2.04E-07	1.13E-07	0.00E+00	1.55E-08
TEEN:	1.37E-07	1.64E-08	5.17E-08	2.04E-07	1.11E-07	0.00E+00	1.75E-08
CHILD:	1.13E-07	6.11E-09	6.33E-08	1.74E-07	9.27E-08	0.00E+00	1.38E-08
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.99E-10	1.42E-10	3.16E-10	1.25E-09	6.95E-10	0.00E+00	9.53E-11
TEEN:	8.39E-10	1.00E-10	3.17E-10	1.25E-09	6.80E-10	0.00E+00	1.07E-10
CHILD:	6.91E-10	3.75E-11	3.88E-10	1.07E-09	5.68E-10	0.00E+00	8.48E-11
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.16E-09	3.58E-09
TEEN:	1.76E-08	2.00E-08
CHILD:	3.68E-09	4.18E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	4.84E-11	5.49E-11
TEEN:	2.70E-10	3.06E-10
CHILD:	5.65E-11	6.40E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS137

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.94E-03	5.73E-05	2.16E-03	2.96E-03	1.00E-03	0.00E+00	3.34E-04
TEEN:	1.07E-03	4.39E-05	2.32E-03	3.08E-03	1.05E-03	0.00E+00	4.08E-04
CHILD:	4.12E-04	1.75E-05	2.92E-03	2.79E-03	9.10E-04	0.00E+00	3.27E-04
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.19E-05	3.51E-07	1.33E-05	1.82E-05	6.16E-06	0.00E+00	2.05E-06
TEEN:	6.59E-06	2.69E-07	1.42E-05	1.89E-05	6.43E-06	0.00E+00	2.50E-06
CHILD:	2.53E-06	1.07E-07	1.79E-05	1.71E-05	5.58E-06	0.00E+00	2.01E-06
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.88E-04	8.53E-06	3.22E-04	4.40E-04	1.49E-04	0.00E+00	4.97E-05
TEEN:	1.59E-04	6.51E-06	3.44E-04	4.58E-04	1.56E-04	0.00E+00	6.05E-05
CHILD:	6.35E-05	2.69E-06	4.49E-04	4.30E-04	1.40E-04	0.00E+00	5.04E-05
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.77E-06	5.23E-08	1.98E-06	2.70E-06	9.17E-07	0.00E+00	3.05E-07
TEEN:	9.78E-07	3.99E-08	2.11E-06	2.81E-06	9.55E-07	0.00E+00	3.71E-07
CHILD:	3.89E-07	1.65E-08	2.76E-06	2.64E-06	8.60E-07	0.00E+00	3.09E-07
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.05E-04	1.22E-04
TEEN:	5.84E-04	6.81E-04
CHILD:	1.22E-04	1.42E-04
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.60E-06	1.87E-06
TEEN:	8.96E-06	1.05E-05
CHILD:	1.87E-06	2.18E-06
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS138

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA139

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA140

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.35E-07	4.25E-06	2.06E-06	2.59E-09	8.81E-10	0.00E+00	1.48E-09
TEEN:	1.42E-07	3.39E-06	2.20E-06	2.69E-09	9.13E-10	0.00E+00	1.81E-09
CHILD:	1.62E-07	1.41E-06	2.77E-06	2.43E-09	7.91E-10	0.00E+00	1.45E-09
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.69E-08	5.30E-07	2.57E-07	3.23E-10	1.10E-10	0.00E+00	1.85E-10
TEEN:	1.77E-08	4.23E-07	2.74E-07	3.36E-10	1.14E-10	0.00E+00	2.26E-10
CHILD:	2.02E-08	1.75E-07	3.46E-07	3.03E-10	9.87E-11	0.00E+00	1.81E-10
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.71E-10	5.37E-09	2.61E-09	3.27E-12	1.11E-12	0.00E+00	1.87E-12
TEEN:	1.79E-10	4.28E-09	2.78E-09	3.40E-12	1.15E-12	0.00E+00	2.29E-12
CHILD:	2.05E-10	1.78E-09	3.51E-09	3.07E-12	1.00E-12	0.00E+00	1.83E-12
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.02E-08	1.26E-06	6.13E-07	7.70E-10	2.62E-10	0.00E+00	4.41E-10
TEEN:	4.20E-08	1.01E-06	6.52E-07	7.99E-10	2.71E-10	0.00E+00	5.37E-10
CHILD:	4.98E-08	4.32E-07	8.53E-07	7.47E-10	2.43E-10	0.00E+00	4.46E-10
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.07E-10	1.28E-08	6.20E-09	7.79E-12	2.65E-12	0.00E+00	4.46E-12
TEEN:	4.25E-10	1.02E-08	6.60E-09	8.08E-12	2.74E-12	0.00E+00	5.44E-12
CHILD:	5.04E-10	4.37E-09	8.64E-09	7.57E-12	2.46E-12	0.00E+00	4.51E-12
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	8.22E-09	9.40E-09
TEEN:	4.59E-08	5.25E-08
CHILD:	9.59E-09	1.10E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	4.11E-10	4.69E-10
TEEN:	2.29E-09	2.62E-09
CHILD:	4.79E-10	5.47E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.04E-11	1.19E-11
TEEN:	5.80E-11	6.63E-11
CHILD:	1.21E-11	1.39E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA141

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA142

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : LA140

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.29E-13	3.57E-08	9.65E-13	4.86E-13	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.34E-13	2.89E-08	1.02E-12	5.03E-13	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.51E-13	1.25E-08	1.28E-12	4.48E-13	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.42E-15	1.78E-09	4.82E-14	2.43E-14	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.68E-15	1.44E-09	5.11E-14	2.51E-14	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.54E-15	6.23E-10	6.40E-14	2.24E-14	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.50E-17	1.80E-11	4.88E-16	2.46E-16	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.76E-17	1.46E-11	5.17E-16	2.54E-16	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.63E-17	6.31E-12	6.48E-16	2.26E-16	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.11E-14	1.70E-08	4.59E-13	2.31E-13	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.35E-14	1.37E-08	4.86E-13	2.39E-13	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.43E-14	6.14E-09	6.30E-13	2.20E-13	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	6.19E-16	1.72E-10	4.65E-15	2.34E-15	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.43E-16	1.39E-10	4.92E-15	2.42E-15	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.52E-16	6.22E-11	6.38E-15	2.23E-15	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	6.72E-12	7.61E-12
TEEN:	3.75E-11	4.25E-11
CHILD:	7.84E-12	8.88E-12
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	3.35E-13	3.80E-13
TEEN:	1.87E-12	2.12E-12
CHILD:	3.91E-13	4.43E-13
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	8.49E-15	9.62E-15
TEEN:	4.74E-14	5.37E-14
CHILD:	9.90E-15	1.12E-14
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : LA142

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE141

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	7.56E-11	2.55E-06	9.85E-10	6.66E-10	3.09E-10	0.00E+00	0.00E+00
TEEN:	8.18E-11	2.04E-06	1.07E-09	7.12E-10	3.35E-10	0.00E+00	0.00E+00
CHILD:	1.02E-10	8.54E-07	1.37E-09	6.85E-10	3.00E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.77E-11	1.27E-06	4.92E-10	3.33E-10	1.55E-10	0.00E+00	0.00E+00
TEEN:	4.08E-11	1.02E-06	5.33E-10	3.56E-10	1.67E-10	0.00E+00	0.00E+00
CHILD:	5.08E-11	4.27E-07	6.86E-10	3.42E-10	1.50E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.82E-13	1.29E-08	4.98E-12	3.37E-12	1.56E-12	0.00E+00	0.00E+00
TEEN:	4.14E-13	1.03E-08	5.39E-12	3.60E-12	1.69E-12	0.00E+00	0.00E+00
CHILD:	5.14E-13	4.32E-09	6.94E-12	3.46E-12	1.52E-12	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.39E-10	1.82E-05	7.03E-09	4.75E-09	2.21E-09	0.00E+00	0.00E+00
TEEN:	5.82E-10	1.45E-05	7.59E-09	5.07E-09	2.39E-09	0.00E+00	0.00E+00
CHILD:	7.51E-10	6.31E-06	1.01E-08	5.05E-09	2.22E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.46E-12	1.84E-07	7.11E-11	4.81E-11	2.23E-11	0.00E+00	0.00E+00
TEEN:	5.89E-12	1.47E-07	7.68E-11	5.13E-11	2.41E-11	0.00E+00	0.00E+00
CHILD:	7.60E-12	6.38E-08	1.03E-10	5.12E-11	2.24E-11	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.20E-08	2.48E-08
TEEN:	1.23E-07	1.38E-07
CHILD:	2.56E-08	2.89E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.10E-09	1.24E-09
TEEN:	6.12E-09	6.90E-09
CHILD:	1.28E-09	1.44E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.77E-11	3.13E-11
TEEN:	1.55E-10	1.75E-10
CHILD:	3.24E-11	3.65E-11
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE143

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.35E-16	1.47E-10	5.31E-15	3.93E-12	1.73E-15	0.00E+00	0.00E+00
TEEN:	4.69E-16	1.26E-10	5.77E-15	4.20E-12	1.88E-15	0.00E+00	0.00E+00
CHILD:	5.81E-16	5.87E-11	7.40E-15	4.01E-12	1.68E-15	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.17E-16	7.33E-11	2.65E-15	1.96E-12	8.64E-16	0.00E+00	0.00E+00
TEEN:	2.34E-16	6.30E-11	2.88E-15	2.10E-12	9.40E-16	0.00E+00	0.00E+00
CHILD:	2.90E-16	2.93E-11	3.69E-15	2.00E-12	8.40E-16	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.20E-18	7.42E-13	2.69E-17	1.99E-14	8.74E-18	0.00E+00	0.00E+00
TEEN:	2.37E-18	6.37E-13	2.91E-17	2.12E-14	9.51E-18	0.00E+00	0.00E+00
CHILD:	2.94E-18	2.97E-13	3.74E-17	2.03E-14	8.50E-18	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.10E-15	1.05E-09	3.79E-14	2.80E-11	1.23E-14	0.00E+00	0.00E+00
TEEN:	3.33E-15	8.97E-10	4.10E-14	2.99E-11	1.34E-14	0.00E+00	0.00E+00
CHILD:	4.29E-15	4.33E-10	5.46E-14	2.96E-11	1.24E-14	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.14E-17	1.06E-11	3.84E-16	2.84E-13	1.25E-16	0.00E+00	0.00E+00
TEEN:	3.38E-17	9.08E-12	4.15E-16	3.02E-13	1.36E-16	0.00E+00	0.00E+00
CHILD:	4.34E-17	4.39E-12	5.53E-16	3.00E-13	1.26E-16	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.84E-13	2.09E-13
TEEN:	1.03E-12	1.17E-12
CHILD:	2.15E-13	2.44E-13
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	9.20E-15	1.05E-14
TEEN:	5.14E-14	5.84E-14
CHILD:	1.07E-14	1.22E-14
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	2.33E-16	2.65E-16
TEEN:	1.30E-15	1.48E-15
CHILD:	2.72E-16	3.09E-16
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE144

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.01E-08	1.90E-04	5.61E-07	2.34E-07	1.39E-07	0.00E+00	0.00E+00
TEEN:	3.28E-08	1.53E-04	6.09E-07	2.52E-07	1.51E-07	0.00E+00	0.00E+00
CHILD:	4.19E-08	6.42E-05	7.85E-07	2.46E-07	1.36E-07	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.50E-08	9.47E-05	2.80E-07	1.17E-07	6.94E-08	0.00E+00	0.00E+00
TEEN:	1.64E-08	7.65E-05	3.04E-07	1.26E-07	7.52E-08	0.00E+00	0.00E+00
CHILD:	2.09E-08	3.21E-05	3.92E-07	1.23E-07	6.81E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.52E-10	9.59E-07	2.84E-09	1.19E-09	7.03E-10	0.00E+00	0.00E+00
TEEN:	1.66E-10	7.75E-07	3.08E-09	1.27E-09	7.61E-10	0.00E+00	0.00E+00
CHILD:	2.12E-10	3.25E-07	3.97E-09	1.24E-09	6.89E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.15E-07	1.35E-03	4.00E-06	1.67E-06	9.92E-07	0.00E+00	0.00E+00
TEEN:	2.33E-07	1.09E-03	4.34E-06	1.79E-06	1.07E-06	0.00E+00	0.00E+00
CHILD:	3.09E-07	4.74E-04	5.80E-06	1.82E-06	1.01E-06	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.17E-09	1.37E-05	4.05E-08	1.69E-08	1.00E-08	0.00E+00	0.00E+00
TEEN:	2.36E-09	1.10E-05	4.39E-08	1.82E-08	1.08E-08	0.00E+00	0.00E+00
CHILD:	3.13E-09	4.80E-06	5.87E-08	1.84E-08	1.02E-08	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	1.19E-06	1.38E-06
TEEN:	6.66E-06	7.70E-06
CHILD:	1.39E-06	1.61E-06
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	5.96E-08	6.89E-08
TEEN:	3.33E-07	3.85E-07
CHILD:	6.95E-08	8.04E-08
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.51E-09	1.74E-09
TEEN:	8.42E-09	9.73E-09
CHILD:	1.76E-09	2.03E-09
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : PR143

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	3.22E-10	2.84E-05	6.49E-09	2.60E-09	1.50E-09	0.00E+00	0.00E+00
TEEN:	3.51E-10	2.32E-05	7.04E-09	2.81E-09	1.63E-09	0.00E+00	0.00E+00
CHILD:	4.52E-10	9.83E-06	9.11E-09	2.74E-09	1.48E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.61E-11	1.42E-06	3.24E-10	1.30E-10	7.51E-11	0.00E+00	0.00E+00
TEEN:	1.75E-11	1.16E-06	3.52E-10	1.40E-10	8.16E-11	0.00E+00	0.00E+00
CHILD:	2.26E-11	4.91E-07	4.55E-10	1.37E-10	7.40E-11	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.63E-13	1.44E-08	3.28E-12	1.32E-12	7.60E-13	0.00E+00	0.00E+00
TEEN:	1.77E-13	1.17E-08	3.56E-12	1.42E-12	8.26E-13	0.00E+00	0.00E+00
CHILD:	2.29E-13	4.97E-09	4.61E-12	1.38E-12	7.49E-13	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.53E-10	1.35E-05	3.09E-09	1.24E-09	7.15E-10	0.00E+00	0.00E+00
TEEN:	1.66E-10	1.10E-05	3.34E-09	1.33E-09	7.75E-10	0.00E+00	0.00E+00
CHILD:	2.23E-10	4.84E-06	4.48E-09	1.35E-09	7.29E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.55E-12	1.37E-07	3.13E-11	1.25E-11	7.24E-12	0.00E+00	0.00E+00
TEEN:	1.68E-12	1.11E-07	3.38E-11	1.35E-11	7.85E-12	0.00E+00	0.00E+00
CHILD:	2.25E-12	4.90E-08	4.54E-11	1.36E-11	7.38E-12	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : PR144

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	0.00E+00	0.00E+00
TEEN:	0.00E+00	0.00E+00
CHILD:	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ND147

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	2.11E-10	1.69E-05	3.05E-09	3.52E-09	2.06E-09	0.00E+00	0.00E+00
TEEN:	2.26E-10	1.36E-05	3.47E-09	3.77E-09	2.21E-09	0.00E+00	0.00E+00
CHILD:	2.79E-10	5.70E-06	4.44E-09	3.60E-09	1.98E-09	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.05E-11	8.45E-07	1.52E-10	1.76E-10	1.03E-10	0.00E+00	0.00E+00
TEEN:	1.13E-11	6.79E-07	1.73E-10	1.88E-10	1.10E-10	0.00E+00	0.00E+00
CHILD:	1.39E-11	2.85E-07	2.22E-10	1.80E-10	9.86E-11	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.07E-13	8.55E-09	1.54E-12	1.78E-12	1.04E-12	0.00E+00	0.00E+00
TEEN:	1.14E-13	6.87E-09	1.75E-12	1.90E-12	1.12E-12	0.00E+00	0.00E+00
CHILD:	1.41E-13	2.88E-09	2.25E-12	1.82E-12	9.99E-13	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.00E-10	8.05E-06	1.45E-09	1.68E-09	9.80E-10	0.00E+00	0.00E+00
TEEN:	1.07E-10	6.45E-06	1.64E-09	1.79E-09	1.05E-09	0.00E+00	0.00E+00
CHILD:	1.37E-10	2.81E-06	2.19E-09	1.77E-09	9.72E-10	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.02E-12	8.15E-08	1.47E-11	1.70E-11	9.92E-12	0.00E+00	0.00E+00
TEEN:	1.08E-12	6.53E-08	1.66E-11	1.81E-11	1.06E-11	0.00E+00	0.00E+00
CHILD:	1.39E-12	2.84E-08	2.21E-11	1.79E-11	9.84E-12	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	2.61E-09	3.13E-09
TEEN:	1.46E-08	1.75E-08
CHILD:	3.05E-09	3.66E-09
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	1.30E-10	1.56E-10
TEEN:	7.28E-10	8.74E-10
CHILD:	1.52E-10	1.83E-10
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	3.30E-12	3.96E-12
TEEN:	1.84E-11	2.21E-11
CHILD:	3.85E-12	4.62E-12
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : W187

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.73E-12	4.43E-09	1.62E-11	1.35E-11	0.00E+00	0.00E+00	0.00E+00
TEEN:	4.99E-12	3.85E-09	1.75E-11	1.42E-11	0.00E+00	0.00E+00	0.00E+00
CHILD:	5.88E-12	1.84E-09	2.21E-11	1.31E-11	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.90E-15	5.53E-12	2.02E-14	1.69E-14	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.23E-15	4.81E-12	2.18E-14	1.78E-14	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.35E-15	2.30E-12	2.76E-14	1.64E-14	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	5.98E-17	5.60E-14	2.04E-16	1.71E-16	0.00E+00	0.00E+00	0.00E+00
TEEN:	6.31E-17	4.87E-14	2.21E-16	1.80E-16	0.00E+00	0.00E+00	0.00E+00
CHILD:	7.44E-17	2.33E-14	2.80E-16	1.66E-16	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.41E-15	1.32E-12	4.81E-15	4.02E-15	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.48E-15	1.14E-12	5.18E-15	4.22E-15	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.81E-15	5.67E-13	6.81E-15	4.03E-15	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	1.42E-17	1.33E-14	4.87E-17	4.07E-17	0.00E+00	0.00E+00	0.00E+00
TEEN:	1.50E-17	1.16E-14	5.24E-17	4.28E-17	0.00E+00	0.00E+00	0.00E+00
CHILD:	1.83E-17	5.74E-15	6.89E-17	4.08E-17	0.00E+00	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	9.26E-15	1.08E-14
TEEN:	5.17E-14	6.01E-14
CHILD:	1.08E-14	1.26E-14
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	4.63E-16	5.37E-16
TEEN:	2.58E-15	3.00E-15
CHILD:	5.40E-16	6.27E-16
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	1.17E-17	1.36E-17
TEEN:	6.54E-17	7.59E-17
CHILD:	1.37E-17	1.59E-17
INFANT:	0.00E+00	0.00E+00

Table B4-7a Continued

INDIVIDUAL DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NP239

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	8.13E-14	3.02E-08	1.50E-12	1.47E-13	4.60E-13	0.00E+00	0.00E+00
TEEN:	8.85E-14	2.56E-08	1.69E-12	1.59E-13	5.00E-13	0.00E+00	0.00E+00
CHILD:	1.10E-13	1.15E-08	2.17E-12	1.56E-13	4.51E-13	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.06E-15	1.51E-09	7.49E-14	7.36E-15	2.30E-14	0.00E+00	0.00E+00
TEEN:	4.42E-15	1.28E-09	8.44E-14	7.96E-15	2.50E-14	0.00E+00	0.00E+00
CHILD:	5.48E-15	5.77E-10	1.09E-13	7.79E-15	2.25E-14	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	4.11E-17	1.53E-11	7.58E-16	7.45E-17	2.32E-16	0.00E+00	0.00E+00
TEEN:	4.47E-17	1.30E-11	8.54E-16	8.05E-17	2.53E-16	0.00E+00	0.00E+00
CHILD:	5.55E-17	5.84E-12	1.10E-15	7.89E-17	2.28E-16	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.66E-16	3.59E-10	1.78E-14	1.75E-15	5.47E-15	0.00E+00	0.00E+00
TEEN:	1.05E-15	3.04E-10	2.00E-14	1.89E-15	5.93E-15	0.00E+00	0.00E+00
CHILD:	1.35E-15	1.42E-10	2.67E-14	1.92E-15	5.55E-15	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ADULT:	9.78E-18	3.64E-12	1.80E-16	1.77E-17	5.53E-17	0.00E+00	0.00E+00
TEEN:	1.06E-17	3.08E-12	2.03E-16	1.91E-17	6.00E-17	0.00E+00	0.00E+00
CHILD:	1.37E-17	1.44E-12	2.71E-16	1.94E-17	5.62E-17	0.00E+00	0.00E+00
INFANT:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ADULT:	4.31E-12	5.00E-12
TEEN:	2.41E-11	2.79E-11
CHILD:	5.03E-12	5.83E-12
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ADULT:	2.15E-13	2.49E-13
TEEN:	1.20E-12	1.39E-12
CHILD:	2.51E-13	2.91E-13
INFANT:	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ADULT:	5.45E-15	6.31E-15
TEEN:	3.04E-14	3.53E-14
CHILD:	6.36E-15	7.37E-15
INFANT:	0.00E+00	0.00E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: H3

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.180E+01	4.180E+01	0.000E+00	4.180E+01	4.180E+01	4.180E+01	4.180E+01	0.000E+00
TEEN	4.780E+01	4.780E+01	0.000E+00	4.780E+01	4.780E+01	4.780E+01	4.780E+01	0.000E+00
CHILD	7.410E+01	7.410E+01	0.000E+00	7.410E+01	7.410E+01	7.410E+01	7.410E+01	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.040E+00	6.040E+00	0.000E+00	6.040E+00	6.040E+00	6.040E+00	6.040E+00	0.000E+00
TEEN	3.600E+00	3.600E+00	0.000E+00	3.600E+00	3.600E+00	3.600E+00	3.600E+00	0.000E+00
CHILD	4.350E+00	4.350E+00	0.000E+00	4.350E+00	4.350E+00	4.350E+00	4.350E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.420E+01	1.420E+01	0.000E+00	1.420E+01	1.420E+01	1.420E+01	1.420E+01	0.000E+00
TEEN	1.850E+01	1.850E+01	0.000E+00	1.850E+01	1.850E+01	1.850E+01	1.850E+01	0.000E+00
CHILD	2.930E+01	2.930E+01	0.000E+00	2.930E+01	2.930E+01	2.930E+01	2.930E+01	0.000E+00
INFANT	4.440E+01	4.440E+01	0.000E+00	4.440E+01	4.440E+01	4.440E+01	4.440E+01	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.900E+01	2.900E+01	0.000E+00	2.900E+01	2.900E+01	2.900E+01	2.900E+01	0.000E+00
TEEN	3.780E+01	3.780E+01	0.000E+00	3.780E+01	3.780E+01	3.780E+01	3.780E+01	0.000E+00
CHILD	5.970E+01	5.970E+01	0.000E+00	5.970E+01	5.970E+01	5.970E+01	5.970E+01	0.000E+00
INFANT	9.060E+01	9.060E+01	0.000E+00	9.060E+01	9.060E+01	9.060E+01	9.060E+01	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.010E+01	4.010E+01	0.000E+00	4.010E+01	4.010E+01	4.010E+01	4.010E+01	0.000E+00
TEEN	4.030E+01	4.030E+01	0.000E+00	4.030E+01	4.030E+01	4.030E+01	4.030E+01	0.000E+00
CHILD	3.570E+01	3.570E+01	0.000E+00	3.570E+01	3.570E+01	3.570E+01	3.570E+01	0.000E+00
INFANT	2.050E+01	2.050E+01	0.000E+00	2.050E+01	2.050E+01	2.050E+01	2.050E+01	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: C14

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.680E+03	5.680E+03	2.840E+04	5.680E+03	5.680E+03	5.680E+03	5.680E+03	0.000E+00
TEEN	9.220E+03	9.220E+03	4.610E+04	9.220E+03	9.220E+03	9.220E+03	9.220E+03	0.000E+00
CHILD	2.220E+04	2.220E+04	1.110E+05	2.220E+04	2.220E+04	2.220E+04	2.220E+04	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.110E+03	2.110E+03	1.060E+04	2.110E+03	2.110E+03	2.110E+03	2.110E+03	0.000E+00
TEEN	1.780E+03	1.780E+03	8.910E+03	1.780E+03	1.780E+03	1.780E+03	1.780E+03	0.000E+00
CHILD	3.350E+03	3.350E+03	1.680E+04	3.350E+03	3.350E+03	3.350E+03	3.350E+03	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.300E+03	2.300E+03	1.150E+04	2.300E+03	2.300E+03	2.300E+03	2.300E+03	0.000E+00
TEEN	4.250E+03	4.250E+03	2.120E+04	4.250E+03	4.250E+03	4.250E+03	4.250E+03	0.000E+00
CHILD	1.040E+04	1.040E+04	5.220E+04	1.040E+04	1.040E+04	1.040E+04	1.040E+04	0.000E+00
INFANT	2.180E+04	2.180E+04	1.020E+05	2.180E+04	2.180E+04	2.180E+04	2.180E+04	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.300E+03	2.300E+03	1.150E+04	2.300E+03	2.300E+03	2.300E+03	2.300E+03	0.000E+00
TEEN	4.250E+03	4.250E+03	2.120E+04	4.250E+03	4.250E+03	4.250E+03	4.250E+03	0.000E+00
CHILD	1.040E+04	1.040E+04	5.220E+04	1.040E+04	1.040E+04	1.040E+04	1.040E+04	0.000E+00
INFANT	2.180E+04	2.180E+04	1.020E+05	2.180E+04	2.180E+04	2.180E+04	2.180E+04	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.080E+02	1.080E+02	5.760E+02	1.080E+02	1.080E+02	1.080E+02	1.080E+02	0.000E+00
TEEN	1.540E+02	1.540E+02	8.240E+02	1.540E+02	1.540E+02	1.540E+02	1.540E+02	0.000E+00
CHILD	2.130E+02	2.130E+02	1.140E+03	2.130E+02	2.130E+02	2.130E+02	2.130E+02	0.000E+00
INFANT	1.680E+02	1.680E+02	8.390E+02	1.680E+02	1.680E+02	1.680E+02	1.680E+02	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: AR41

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	3.140E+02
TEEN	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	3.140E+02
CHILD	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	3.140E+02
INFANT	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	3.140E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR83M

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	9.390E-02	4.750E-01
TEEN	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	9.390E-02	4.750E-01
CHILD	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	9.390E-02	4.750E-01
INFANT	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	1.680E-03	9.390E-02	4.750E-01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR85M

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.660E+01	7.660E+01
TEEN	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.660E+01	7.660E+01
CHILD	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.660E+01	7.660E+01
INFANT	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.600E+01	2.660E+01	7.660E+01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR85

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	9.500E-01	4.290E+01
TEEN	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	9.500E-01	4.290E+01
CHILD	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	9.500E-01	4.290E+01
INFANT	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	3.570E-01	9.500E-01	4.290E+01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR87

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.350E+02	4.600E+02
TEEN	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.350E+02	4.600E+02
CHILD	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.350E+02	4.600E+02
INFANT	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.310E+02	1.350E+02	4.600E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR88

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.270E+02	4.500E+02
TEEN	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.270E+02	4.500E+02
CHILD	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.270E+02	4.500E+02
INFANT	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.260E+02	3.270E+02	4.500E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR89

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.720E+02	7.460E+02
TEEN	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.720E+02	7.460E+02
CHILD	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.720E+02	7.460E+02
INFANT	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.680E+02	3.720E+02	7.460E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: KR90

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.490E+02	6.330E+02
TEEN	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.490E+02	6.330E+02
CHILD	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.490E+02	6.330E+02
INFANT	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.460E+02	3.490E+02	6.330E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE131M

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.380E+00	1.890E+01
TEEN	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.380E+00	1.890E+01
CHILD	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.380E+00	1.890E+01
INFANT	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.030E+00	2.380E+00	1.890E+01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE133M

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	6.030E+00	3.960E+01
TEEN	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	6.030E+00	3.960E+01
CHILD	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	6.030E+00	3.960E+01
INFANT	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	5.570E+00	6.030E+00	3.960E+01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE133

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.860E+00	1.840E+01
TEEN	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.860E+00	1.840E+01
CHILD	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.860E+00	1.840E+01
INFANT	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.520E+00	6.860E+00	1.840E+01

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE135M

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.950E+01	1.050E+02
TEEN	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.950E+01	1.050E+02
CHILD	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.950E+01	1.050E+02
INFANT	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.920E+01	6.950E+01	1.050E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE135

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.090E+01	1.060E+02
TEEN	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.090E+01	1.060E+02
CHILD	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.090E+01	1.060E+02
INFANT	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.020E+01	4.090E+01	1.060E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE137

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.540E+01	4.240E+02
TEEN	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.540E+01	4.240E+02
CHILD	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.540E+01	4.240E+02
INFANT	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.150E+01	3.540E+01	4.240E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: XE138

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.980E+02	3.580E+02
TEEN	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.980E+02	3.580E+02
CHILD	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.980E+02	3.580E+02
INFANT	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.960E+02	1.980E+02	3.580E+02

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CR51

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.690E+05
TEEN	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.690E+05
CHILD	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.690E+05
INFANT	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.430E+05	1.690E+05

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.390E+03	3.500E+05	0.000E+00	0.000E+00	3.060E+02	8.310E+02	1.840E+03	0.000E+00
TEEN	1.850E+03	3.100E+05	0.000E+00	0.000E+00	4.050E+02	1.030E+03	2.640E+03	0.000E+00
CHILD	3.510E+03	1.860E+05	0.000E+00	0.000E+00	5.320E+02	1.950E+03	3.560E+03	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.910E+02	4.810E+04	0.000E+00	0.000E+00	4.210E+01	1.140E+02	2.540E+02	0.000E+00
TEEN	1.530E+02	2.570E+04	0.000E+00	0.000E+00	3.350E+01	8.490E+01	2.180E+02	0.000E+00
CHILD	2.380E+02	1.260E+04	0.000E+00	0.000E+00	3.610E+01	1.320E+02	2.420E+02	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.740E+02	1.950E+05	0.000E+00	0.000E+00	1.700E+02	4.620E+02	1.030E+03	0.000E+00
TEEN	1.350E+03	2.270E+05	0.000E+00	0.000E+00	2.960E+02	7.510E+02	1.930E+03	0.000E+00
CHILD	2.760E+03	1.460E+05	0.000E+00	0.000E+00	4.180E+02	1.530E+03	2.790E+03	0.000E+00
INFANT	4.370E+03	1.270E+05	0.000E+00	0.000E+00	6.220E+02	2.850E+03	5.540E+03	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.280E+01	2.330E+04	0.000E+00	0.000E+00	2.050E+01	5.550E+01	1.230E+02	0.000E+00
TEEN	1.620E+02	2.720E+04	0.000E+00	0.000E+00	3.550E+01	9.010E+01	2.310E+02	0.000E+00
CHILD	3.310E+02	1.750E+04	0.000E+00	0.000E+00	5.020E+01	1.840E+02	3.350E+02	0.000E+00
INFANT	5.240E+02	1.530E+04	0.000E+00	0.000E+00	7.470E+01	3.420E+02	6.650E+02	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.170E+00	1.050E+02	0.000E+00	0.000E+00	7.230E-01	1.890E+00	4.560E+02	0.000E+00
TEEN	4.290E+00	9.510E+01	0.000E+00	0.000E+00	9.740E-01	2.380E+00	6.640E+02	0.000E+00
CHILD	4.890E+00	3.440E+01	0.000E+00	0.000E+00	7.710E-01	2.710E+00	5.380E+02	0.000E+00
INFANT	2.840E+00	1.130E+01	0.000E+00	0.000E+00	4.190E-01	1.820E+00	4.070E+02	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: MN54

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.960E+07
TEEN	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.960E+07
CHILD	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.960E+07
INFANT	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.230E+07	4.960E+07

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.770E+06	2.840E+07	0.000E+00	9.270E+06	2.760E+06	0.000E+00	0.000E+00	0.000E+00
TEEN	2.670E+06	2.760E+07	0.000E+00	1.350E+07	4.010E+06	0.000E+00	0.000E+00	0.000E+00
CHILD	5.240E+06	1.650E+07	0.000E+00	1.970E+07	5.520E+06	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.230E+04	6.790E+05	0.000E+00	2.220E+05	6.600E+04	0.000E+00	0.000E+00	0.000E+00
TEEN	3.350E+04	3.470E+05	0.000E+00	1.690E+05	5.040E+04	0.000E+00	0.000E+00	0.000E+00
CHILD	5.150E+04	1.620E+05	0.000E+00	1.930E+05	5.420E+04	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.880E+04	6.220E+05	0.000E+00	2.030E+05	6.050E+04	0.000E+00	0.000E+00	0.000E+00
TEEN	6.710E+04	6.940E+05	0.000E+00	3.380E+05	1.010E+05	0.000E+00	0.000E+00	0.000E+00
CHILD	1.350E+05	4.250E+05	0.000E+00	5.060E+05	1.420E+05	0.000E+00	0.000E+00	0.000E+00
INFANT	2.130E+05	3.460E+05	0.000E+00	9.420E+05	2.090E+05	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.650E+03	7.470E+04	0.000E+00	2.440E+04	7.250E+03	0.000E+00	0.000E+00	0.000E+00
TEEN	8.050E+03	8.330E+04	0.000E+00	4.060E+04	1.210E+04	0.000E+00	0.000E+00	0.000E+00
CHILD	1.620E+04	5.100E+04	0.000E+00	6.080E+04	1.700E+04	0.000E+00	0.000E+00	0.000E+00
INFANT	2.560E+04	4.150E+04	0.000E+00	1.130E+05	2.500E+04	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.000E+02	2.450E+03	0.000E+00	1.260E+03	3.120E+02	0.000E+00	4.440E+04	0.000E+00
TEEN	2.660E+02	2.120E+03	0.000E+00	1.620E+03	4.030E+02	0.000E+00	6.290E+04	0.000E+00
CHILD	3.010E+02	7.260E+02	0.000E+00	1.360E+03	3.180E+02	0.000E+00	5.000E+04	0.000E+00
INFANT	1.580E+02	2.240E+02	0.000E+00	8.030E+02	1.580E+02	0.000E+00	3.170E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: FE59

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	9.800E+06
TEEN	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	9.800E+06
CHILD	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	9.800E+06
INFANT	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	8.340E+06	9.800E+06

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.360E+06	2.920E+07	3.730E+06	8.760E+06	0.000E+00	0.000E+00	2.450E+06	0.000E+00
TEEN	4.780E+06	2.930E+07	5.300E+06	1.240E+07	0.000E+00	0.000E+00	3.900E+06	0.000E+00
CHILD	9.470E+06	1.980E+07	1.170E+07	1.900E+07	0.000E+00	0.000E+00	5.510E+06	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.220E+06	5.410E+07	6.900E+06	1.620E+07	0.000E+00	0.000E+00	4.530E+06	0.000E+00
TEEN	4.970E+06	3.040E+07	5.510E+06	1.290E+07	0.000E+00	0.000E+00	4.060E+06	0.000E+00
CHILD	7.880E+06	1.650E+07	9.780E+06	1.580E+07	0.000E+00	0.000E+00	4.590E+06	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.950E+05	6.040E+06	7.710E+05	1.810E+06	0.000E+00	0.000E+00	5.070E+05	0.000E+00
TEEN	1.210E+06	7.430E+06	1.350E+06	3.140E+06	0.000E+00	0.000E+00	9.910E+05	0.000E+00
CHILD	2.520E+06	5.260E+06	3.120E+06	5.050E+06	0.000E+00	0.000E+00	1.460E+06	0.000E+00
INFANT	4.010E+06	4.860E+06	5.830E+06	1.020E+07	0.000E+00	0.000E+00	3.010E+06	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.040E+03	7.860E+04	1.000E+04	2.360E+04	0.000E+00	0.000E+00	6.590E+03	0.000E+00
TEEN	1.580E+04	9.660E+04	1.750E+04	4.090E+04	0.000E+00	0.000E+00	1.290E+04	0.000E+00
CHILD	3.270E+04	6.840E+04	4.060E+04	6.570E+04	0.000E+00	0.000E+00	1.900E+04	0.000E+00
INFANT	5.220E+04	6.320E+04	7.580E+04	1.320E+05	0.000E+00	0.000E+00	3.910E+04	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.350E+02	5.960E+03	3.730E+02	8.800E+02	0.000E+00	0.000E+00	3.220E+04	0.000E+00
TEEN	4.540E+02	5.660E+03	5.050E+02	1.170E+03	0.000E+00	0.000E+00	4.840E+04	0.000E+00
CHILD	5.290E+02	2.240E+03	6.560E+02	1.060E+03	0.000E+00	0.000E+00	4.020E+04	0.000E+00
INFANT	3.000E+02	7.860E+02	4.300E+02	7.460E+02	0.000E+00	0.000E+00	3.220E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CO58

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.360E+07
TEEN	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.360E+07
CHILD	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.360E+07
INFANT	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.160E+07	1.360E+07

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.020E+06	1.830E+07	0.000E+00	9.020E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.950E+06	1.760E+07	0.000E+00	1.280E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	5.780E+06	1.100E+07	0.000E+00	1.890E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.030E+06	9.300E+06	0.000E+00	4.590E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	8.160E+05	4.880E+06	0.000E+00	3.540E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	1.270E+06	2.410E+06	0.000E+00	4.130E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.660E+05	2.410E+06	0.000E+00	1.190E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	4.610E+05	2.750E+06	0.000E+00	2.000E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	9.350E+05	1.780E+06	0.000E+00	3.050E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	1.520E+06	1.520E+06	0.000E+00	6.110E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.190E+04	2.890E+05	0.000E+00	1.420E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	5.530E+04	3.310E+05	0.000E+00	2.400E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	1.120E+05	2.140E+05	0.000E+00	3.660E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	1.830E+05	1.830E+05	0.000E+00	7.330E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.570E+01	3.370E+03	0.000E+00	5.020E+01	0.000E+00	0.000E+00	2.940E+04	0.000E+00
TEEN	8.800E+01	3.020E+03	0.000E+00	6.570E+01	0.000E+00	0.000E+00	4.260E+04	0.000E+00
CHILD	1.000E+02	1.090E+03	0.000E+00	5.620E+01	0.000E+00	0.000E+00	3.510E+04	0.000E+00
INFANT	5.770E+01	3.530E+02	0.000E+00	3.870E+01	0.000E+00	0.000E+00	2.460E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CO60

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	7.740E+08
TEEN	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	7.740E+08
CHILD	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	7.740E+08
INFANT	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	6.580E+08	7.740E+08

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.110E+07	9.420E+07	0.000E+00	5.020E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.680E+07	9.720E+07	0.000E+00	7.460E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.350E+07	6.290E+07	0.000E+00	1.140E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.980E+06	3.390E+07	0.000E+00	1.800E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	3.150E+06	1.820E+07	0.000E+00	1.400E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	4.900E+06	9.200E+06	0.000E+00	1.660E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.680E+05	7.390E+06	0.000E+00	3.930E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.500E+06	8.680E+06	0.000E+00	6.660E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.050E+06	5.730E+06	0.000E+00	1.030E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	4.990E+06	5.030E+06	0.000E+00	2.110E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.040E+05	8.870E+05	0.000E+00	4.720E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.800E+05	1.040E+06	0.000E+00	8.000E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.660E+05	6.880E+05	0.000E+00	1.240E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	5.990E+05	6.030E+05	0.000E+00	2.540E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.690E+02	9.030E+03	0.000E+00	3.650E+02	0.000E+00	0.000E+00	1.890E+05	0.000E+00
TEEN	6.290E+02	8.220E+03	0.000E+00	4.790E+02	0.000E+00	0.000E+00	2.760E+05	0.000E+00
CHILD	7.180E+02	3.050E+03	0.000E+00	4.160E+02	0.000E+00	0.000E+00	2.240E+05	0.000E+00
INFANT	3.730E+02	1.010E+03	0.000E+00	2.540E+02	0.000E+00	0.000E+00	1.430E+05	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: ZN65

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.630E+07
TEEN	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.630E+07
CHILD	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.630E+07
INFANT	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.290E+07	2.630E+07

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.740E+07	2.430E+07	1.210E+07	3.860E+07	2.580E+07	0.000E+00	0.000E+00	0.000E+00
TEEN	2.620E+07	2.380E+07	1.620E+07	5.630E+07	3.600E+07	0.000E+00	0.000E+00	0.000E+00
CHILD	5.150E+07	1.450E+07	3.110E+07	8.280E+07	5.220E+07	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.390E+07	1.940E+07	9.700E+06	3.090E+07	2.060E+07	0.000E+00	0.000E+00	0.000E+00
TEEN	1.100E+07	1.000E+07	6.820E+06	2.370E+07	1.520E+07	0.000E+00	0.000E+00	0.000E+00
CHILD	1.700E+07	4.790E+06	1.020E+07	2.730E+07	1.720E+07	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.380E+07	7.490E+07	3.740E+07	1.190E+08	7.960E+07	0.000E+00	0.000E+00	0.000E+00
TEEN	9.300E+07	8.440E+07	5.740E+07	1.990E+08	1.280E+08	0.000E+00	0.000E+00	0.000E+00
CHILD	1.870E+08	5.270E+07	1.130E+08	3.000E+08	1.890E+08	0.000E+00	0.000E+00	0.000E+00
INFANT	2.390E+08	4.380E+08	1.510E+08	5.190E+08	2.520E+08	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.450E+06	8.990E+06	4.490E+06	1.430E+07	9.550E+06	0.000E+00	0.000E+00	0.000E+00
TEEN	1.120E+07	1.010E+07	6.890E+06	2.390E+07	1.530E+07	0.000E+00	0.000E+00	0.000E+00
CHILD	2.240E+07	6.330E+06	1.350E+07	3.600E+07	2.270E+07	0.000E+00	0.000E+00	0.000E+00
INFANT	2.870E+07	5.260E+07	1.820E+07	6.230E+07	3.020E+07	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.480E+03	1.690E+03	1.030E+03	3.270E+03	2.190E+03	0.000E+00	2.740E+04	0.000E+00
TEEN	1.980E+03	1.480E+03	1.220E+03	4.240E+03	2.740E+03	0.000E+00	3.930E+04	0.000E+00
CHILD	2.230E+03	5.170E+02	1.350E+03	3.590E+03	2.260E+03	0.000E+00	3.160E+04	0.000E+00
INFANT	9.850E+02	1.630E+03	6.120E+02	1.980E+03	1.030E+03	0.000E+00	2.050E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: SR89

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	7.680E+02
TEEN	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	7.680E+02
CHILD	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	7.680E+02
INFANT	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	6.620E+02	7.680E+02

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.770E+06	4.900E+07	3.060E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.330E+07	5.530E+07	4.640E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.150E+07	4.270E+07	1.100E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.410E+05	1.340E+06	8.380E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.030E+05	8.430E+05	7.080E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.820E+05	5.180E+05	1.340E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.160E+06	6.470E+06	4.030E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.130E+06	8.850E+06	7.430E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	5.250E+06	7.120E+06	1.840E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	1.000E+07	7.190E+06	3.500E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.430E+06	1.360E+07	8.470E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	4.470E+06	1.860E+07	1.560E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	1.100E+07	1.500E+07	3.860E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	2.110E+07	1.510E+07	7.340E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.760E+02	1.110E+04	9.640E+03	0.000E+00	0.000E+00	0.000E+00	4.440E+04	0.000E+00
TEEN	3.960E+02	1.180E+04	1.380E+04	0.000E+00	0.000E+00	0.000E+00	7.660E+04	0.000E+00
CHILD	5.470E+02	5.300E+03	1.900E+04	0.000E+00	0.000E+00	0.000E+00	6.840E+04	0.000E+00
INFANT	3.620E+02	2.030E+03	1.260E+04	0.000E+00	0.000E+00	0.000E+00	6.440E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: SR90

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.280E+10	1.510E+09	5.230E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.600E+10	1.820E+09	6.490E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	2.730E+10	1.450E+09	1.080E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.810E+08	4.480E+07	1.550E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.480E+08	2.820E+07	1.000E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.290E+08	1.750E+07	1.300E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.430E+09	1.690E+08	5.840E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.040E+09	2.320E+08	8.250E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	3.530E+09	1.880E+08	1.390E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	3.860E+09	1.890E+08	1.520E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.010E+09	3.540E+08	1.230E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	4.280E+09	4.860E+08	1.730E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	7.420E+09	3.940E+08	2.930E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	8.110E+09	3.980E+08	3.190E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.930E+05	2.290E+04	3.140E+06	0.000E+00	0.000E+00	0.000E+00	3.040E+05	0.000E+00
TEEN	2.120E+05	2.420E+04	3.420E+06	0.000E+00	0.000E+00	0.000E+00	5.220E+05	0.000E+00
CHILD	2.040E+05	1.090E+04	3.200E+06	0.000E+00	0.000E+00	0.000E+00	4.680E+05	0.000E+00
INFANT	8.210E+04	4.150E+03	1.300E+06	0.000E+00	0.000E+00	0.000E+00	3.560E+05	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: ZR95

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	8.670E+06
TEEN	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	8.670E+06
CHILD	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	8.670E+06
INFANT	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	7.480E+06	8.670E+06

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.480E+03	3.500E+07	3.450E+04	1.110E+04	1.730E+04	0.000E+00	0.000E+00	0.000E+00
TEEN	1.100E+04	3.680E+07	5.050E+04	1.590E+04	2.340E+04	0.000E+00	0.000E+00	0.000E+00
CHILD	2.210E+04	2.600E+07	1.130E+05	2.490E+04	3.560E+04	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.030E+04	4.820E+07	4.740E+04	1.520E+04	2.390E+04	0.000E+00	0.000E+00	0.000E+00
TEEN	8.240E+03	2.770E+07	3.800E+04	1.200E+04	1.760E+04	0.000E+00	0.000E+00	0.000E+00
CHILD	1.320E+04	1.550E+07	6.740E+04	1.480E+04	2.120E+04	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.180E+00	2.430E+04	2.390E+01	7.660E+00	1.200E+01	0.000E+00	0.000E+00	0.000E+00
TEEN	9.060E+00	3.040E+04	4.180E+01	1.320E+01	1.940E+01	0.000E+00	0.000E+00	0.000E+00
CHILD	1.900E+01	2.220E+04	9.700E+01	2.130E+01	3.050E+01	0.000E+00	0.000E+00	0.000E+00
INFANT	2.980E+01	2.090E+04	1.720E+02	4.200E+01	4.520E+01	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.220E-01	2.910E+03	2.870E+00	9.190E-01	1.440E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	1.090E+00	3.650E+03	5.010E+00	1.580E+00	2.320E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	2.280E+00	2.670E+03	1.160E+01	2.560E+00	3.660E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	3.570E+00	2.510E+03	2.070E+01	5.040E+00	5.430E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.380E+02	4.770E+03	3.400E+03	1.090E+03	1.720E+03	0.000E+00	5.600E+04	0.000E+00
TEEN	9.990E+02	4.720E+03	4.620E+03	1.450E+03	2.140E+03	0.000E+00	8.520E+04	0.000E+00
CHILD	1.170E+03	1.940E+03	6.020E+03	1.330E+03	1.890E+03	0.000E+00	7.070E+04	0.000E+00
INFANT	6.440E+02	6.880E+02	3.660E+03	8.830E+02	9.850E+02	0.000E+00	5.550E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: SB124

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CS134

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.440E+08
TEEN	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.440E+08
CHILD	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.440E+08
INFANT	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.090E+08	2.440E+08

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.730E+08	5.830E+06	1.400E+08	3.330E+08	1.080E+08	0.000E+00	3.580E+07	0.000E+00
TEEN	2.330E+08	6.240E+06	2.130E+08	5.020E+08	1.590E+08	0.000E+00	6.090E+07	0.000E+00
CHILD	1.670E+08	4.260E+06	4.810E+08	7.900E+08	2.450E+08	0.000E+00	8.790E+07	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.080E+07	6.590E+05	1.580E+07	3.770E+07	1.220E+07	0.000E+00	4.050E+06	0.000E+00
TEEN	1.370E+07	3.680E+05	1.260E+07	2.960E+07	9.410E+06	0.000E+00	3.590E+06	0.000E+00
CHILD	7.680E+06	1.960E+05	2.220E+07	3.640E+07	1.130E+07	0.000E+00	4.050E+06	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.650E+08	5.670E+06	1.360E+08	3.240E+08	1.050E+08	0.000E+00	3.480E+07	0.000E+00
TEEN	2.580E+08	6.920E+06	2.360E+08	5.560E+08	1.770E+08	0.000E+00	6.750E+07	0.000E+00
CHILD	1.890E+08	4.820E+06	5.450E+08	8.940E+08	2.770E+08	0.000E+00	9.940E+07	0.000E+00
INFANT	1.650E+08	4.450E+06	8.780E+08	1.640E+09	4.210E+08	0.000E+00	1.730E+08	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.940E+08	1.700E+07	4.080E+08	9.710E+08	3.140E+08	0.000E+00	1.040E+08	0.000E+00
TEEN	7.740E+08	2.070E+07	7.090E+08	1.670E+09	5.300E+08	0.000E+00	2.020E+08	0.000E+00
CHILD	5.660E+08	1.450E+07	1.630E+09	2.680E+09	8.310E+08	0.000E+00	2.980E+08	0.000E+00
INFANT	4.960E+08	1.330E+07	2.630E+09	4.910E+09	1.260E+09	0.000E+00	5.180E+08	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.310E+04	3.300E+02	1.180E+04	2.690E+04	9.100E+03	0.000E+00	3.090E+03	0.000E+00
TEEN	1.740E+04	3.090E+02	1.590E+04	3.580E+04	1.190E+04	0.000E+00	4.640E+03	0.000E+00
CHILD	7.120E+03	1.220E+02	2.060E+04	3.210E+04	1.050E+04	0.000E+00	3.840E+03	0.000E+00
INFANT	2.360E+03	4.230E+01	1.260E+04	2.230E+04	6.040E+03	0.000E+00	2.530E+03	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CS136

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	5.210E+06
TEEN	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	5.210E+06
CHILD	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	5.210E+06
INFANT	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	4.600E+06	5.210E+06

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.660E+06	5.770E+05	1.290E+06	5.080E+06	2.830E+06	0.000E+00	3.880E+05	0.000E+00
TEEN	3.480E+06	4.170E+05	1.320E+06	5.190E+06	2.820E+06	0.000E+00	4.450E+05	0.000E+00
CHILD	4.410E+06	2.400E+05	2.480E+06	6.820E+06	3.630E+06	0.000E+00	5.420E+05	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.890E+05	1.560E+05	3.480E+05	1.370E+06	7.640E+05	0.000E+00	1.050E+05	0.000E+00
TEEN	7.170E+05	8.590E+04	2.710E+05	1.070E+06	5.810E+05	0.000E+00	9.160E+04	0.000E+00
CHILD	8.330E+05	4.520E+04	4.680E+05	1.290E+06	6.850E+05	0.000E+00	1.020E+05	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.160E+07	3.410E+06	7.610E+06	3.000E+07	1.670E+07	0.000E+00	2.290E+06	0.000E+00
TEEN	3.420E+07	4.100E+06	1.300E+07	5.100E+07	2.770E+07	0.000E+00	4.370E+06	0.000E+00
CHILD	5.200E+07	2.820E+06	2.920E+07	8.040E+07	4.280E+07	0.000E+00	6.380E+06	0.000E+00
INFANT	6.270E+07	2.550E+06	5.710E+07	1.680E+08	6.690E+07	0.000E+00	1.370E+07	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.490E+07	1.020E+07	2.280E+07	9.010E+07	5.010E+07	0.000E+00	6.870E+06	0.000E+00
TEEN	1.030E+08	1.230E+07	3.890E+07	1.530E+08	8.320E+07	0.000E+00	1.310E+07	0.000E+00
CHILD	1.560E+08	8.470E+06	8.770E+07	2.410E+08	1.280E+08	0.000E+00	1.910E+07	0.000E+00
INFANT	1.880E+08	7.650E+06	1.710E+08	5.040E+08	2.010E+08	0.000E+00	4.110E+07	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.500E+03	3.700E+02	1.240E+03	4.640E+03	2.710E+03	0.000E+00	3.800E+02	0.000E+00
TEEN	4.340E+03	3.450E+02	1.630E+03	6.140E+03	3.500E+03	0.000E+00	5.630E+02	0.000E+00
CHILD	3.680E+03	1.330E+02	2.060E+03	5.420E+03	3.030E+03	0.000E+00	4.610E+02	0.000E+00
INFANT	1.680E+03	4.530E+01	1.530E+03	4.260E+03	1.790E+03	0.000E+00	3.730E+02	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CS137

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.670E+08
TEEN	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.670E+08
CHILD	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.670E+08
INFANT	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.150E+08	3.670E+08

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.960E+08	5.790E+06	2.190E+08	2.990E+08	1.020E+08	0.000E+00	3.380E+07	0.000E+00
TEEN	1.620E+08	6.600E+06	3.490E+08	4.640E+08	1.580E+08	0.000E+00	6.130E+07	0.000E+00
CHILD	1.160E+08	4.930E+06	8.230E+08	7.880E+08	2.570E+08	0.000E+00	9.240E+07	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.990E+07	5.880E+05	2.220E+07	3.040E+07	1.030E+07	0.000E+00	3.430E+06	0.000E+00
TEEN	8.540E+06	3.490E+05	1.840E+07	2.450E+07	8.350E+06	0.000E+00	3.240E+06	0.000E+00
CHILD	4.800E+06	2.030E+05	3.390E+07	3.250E+07	1.060E+07	0.000E+00	3.810E+06	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.680E+08	4.970E+06	1.880E+08	2.570E+08	8.720E+07	0.000E+00	2.900E+07	0.000E+00
TEEN	1.580E+08	6.450E+06	3.410E+08	4.530E+08	1.540E+08	0.000E+00	5.990E+07	0.000E+00
CHILD	1.160E+08	4.920E+06	8.210E+08	7.860E+08	2.560E+08	0.000E+00	9.210E+07	0.000E+00
INFANT	1.090E+08	4.790E+06	1.310E+09	1.530E+09	4.120E+08	0.000E+00	1.670E+08	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.050E+08	1.490E+07	5.640E+08	7.710E+08	2.620E+08	0.000E+00	8.700E+07	0.000E+00
TEEN	4.740E+08	1.930E+07	1.020E+09	1.360E+09	4.630E+08	0.000E+00	1.800E+08	0.000E+00
CHILD	3.480E+08	1.480E+07	2.460E+09	2.360E+09	7.680E+08	0.000E+00	2.760E+08	0.000E+00
INFANT	3.260E+08	1.440E+07	3.930E+09	4.600E+09	1.230E+09	0.000E+00	5.000E+08	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.360E+04	2.660E+02	1.520E+04	1.970E+04	7.050E+03	0.000E+00	2.380E+03	0.000E+00
TEEN	9.870E+03	2.690E+02	2.130E+04	2.690E+04	9.640E+03	0.000E+00	3.830E+03	0.000E+00
CHILD	4.070E+03	1.150E+02	2.870E+04	2.620E+04	8.950E+03	0.000E+00	3.300E+03	0.000E+00
INFANT	1.440E+03	4.230E+01	1.740E+04	1.940E+04	5.460E+03	0.000E+00	2.260E+03	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: BA140

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	7.160E+05
TEEN	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	7.160E+05
CHILD	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	7.160E+05
INFANT	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	6.270E+05	7.160E+05

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.540E+05	7.990E+06	3.880E+06	4.870E+03	1.660E+03	0.000E+00	2.790E+03	0.000E+00
TEEN	2.690E+05	6.430E+06	4.170E+06	5.110E+03	1.730E+03	0.000E+00	3.430E+03	0.000E+00
CHILD	4.870E+05	4.230E+06	8.350E+06	7.310E+03	2.380E+03	0.000E+00	4.360E+03	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.460E+04	1.710E+06	8.330E+05	1.050E+03	3.560E+02	0.000E+00	5.990E+02	0.000E+00
TEEN	4.440E+04	1.060E+06	6.880E+05	8.440E+02	2.860E+02	0.000E+00	5.670E+02	0.000E+00
CHILD	7.420E+04	6.440E+05	1.270E+06	1.110E+03	3.620E+02	0.000E+00	6.640E+02	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.100E+04	1.600E+06	7.790E+05	9.780E+02	3.330E+02	0.000E+00	5.600E+02	0.000E+00
TEEN	9.060E+04	2.170E+06	1.410E+06	1.720E+03	5.840E+02	0.000E+00	1.160E+03	0.000E+00
CHILD	1.980E+05	1.720E+06	3.390E+06	2.970E+03	9.680E+02	0.000E+00	1.770E+03	0.000E+00
INFANT	3.600E+05	1.720E+06	6.980E+06	6.980E+03	1.660E+03	0.000E+00	4.290E+03	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.120E+03	1.920E+05	9.350E+04	1.170E+02	3.990E+01	0.000E+00	6.720E+01	0.000E+00
TEEN	1.090E+04	2.600E+05	1.690E+05	2.070E+02	7.010E+01	0.000E+00	1.390E+02	0.000E+00
CHILD	2.380E+04	2.060E+05	4.070E+05	3.570E+02	1.160E+02	0.000E+00	2.130E+02	0.000E+00
INFANT	4.320E+04	2.060E+05	8.380E+05	8.380E+02	1.990E+02	0.000E+00	5.150E+02	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	8.140E+01	6.920E+03	1.240E+03	1.550E+00	5.300E-01	0.000E+00	4.030E+04	0.000E+00
TEEN	1.120E+02	7.250E+03	1.730E+03	2.130E+00	7.230E-01	0.000E+00	6.440E+04	0.000E+00
CHILD	1.370E+02	3.230E+03	2.350E+03	2.050E+00	6.700E-01	0.000E+00	5.520E+04	0.000E+00
INFANT	9.190E+01	1.220E+03	1.780E+03	1.780E+00	4.260E-01	0.000E+00	5.060E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CE141

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.700E+05
TEEN	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.700E+05
CHILD	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.700E+05
INFANT	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.170E+05	4.700E+05

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.500E+02	1.520E+07	5.860E+03	3.970E+03	1.840E+03	0.000E+00	0.000E+00	0.000E+00
TEEN	6.450E+02	1.610E+07	8.410E+03	5.620E+03	2.640E+03	0.000E+00	0.000E+00	0.000E+00
CHILD	1.440E+03	1.210E+07	1.950E+04	9.730E+03	4.270E+03	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.870E+01	9.690E+05	3.750E+02	2.530E+02	1.180E+02	0.000E+00	0.000E+00	0.000E+00
TEEN	2.410E+01	6.010E+05	3.150E+02	2.100E+02	9.890E+01	0.000E+00	0.000E+00	0.000E+00
CHILD	4.390E+01	3.690E+05	5.920E+02	2.950E+02	1.300E+02	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	9.910E+00	3.340E+05	1.290E+02	8.740E+01	4.060E+01	0.000E+00	0.000E+00	0.000E+00
TEEN	1.820E+01	4.520E+05	2.370E+02	1.580E+02	7.450E+01	0.000E+00	0.000E+00	0.000E+00
CHILD	4.320E+01	3.630E+05	5.830E+02	2.910E+02	1.280E+02	0.000E+00	0.000E+00	0.000E+00
INFANT	8.300E+01	3.640E+05	1.160E+03	7.050E+02	2.170E+02	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.190E+00	4.010E+04	1.550E+01	1.050E+01	4.870E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	2.180E+00	5.430E+04	2.840E+01	1.900E+01	8.930E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	5.180E+00	4.360E+04	7.000E+01	3.490E+01	1.530E+01	0.000E+00	0.000E+00	0.000E+00
INFANT	9.960E+00	4.370E+04	1.390E+02	8.460E+01	2.610E+01	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.840E+01	3.800E+03	6.310E+02	4.290E+02	1.990E+02	0.000E+00	1.150E+04	0.000E+00
TEEN	6.870E+01	4.010E+03	9.000E+02	6.010E+02	2.810E+02	0.000E+00	1.950E+04	0.000E+00
CHILD	9.180E+01	1.790E+03	1.240E+03	6.190E+02	2.710E+02	0.000E+00	1.720E+04	0.000E+00
INFANT	6.300E+01	6.830E+02	8.790E+02	5.280E+02	1.660E+02	0.000E+00	1.640E+04	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: CE144

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.450E+06
TEEN	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.450E+06
CHILD	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.450E+06
INFANT	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.120E+06	2.450E+06

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.090E+04	3.210E+08	9.480E+05	3.960E+05	2.350E+05	0.000E+00	0.000E+00	0.000E+00
TEEN	8.170E+04	3.820E+08	1.520E+06	6.290E+05	3.760E+05	0.000E+00	0.000E+00	0.000E+00
CHILD	1.950E+05	2.990E+08	3.660E+06	1.150E+06	6.360E+05	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.870E+03	1.180E+07	3.480E+04	1.460E+04	8.640E+03	0.000E+00	0.000E+00	0.000E+00
TEEN	1.580E+03	7.380E+06	2.940E+04	1.210E+04	7.260E+03	0.000E+00	0.000E+00	0.000E+00
CHILD	2.950E+03	4.520E+06	5.530E+04	1.740E+04	9.610E+03	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.590E+02	2.890E+06	8.550E+03	3.570E+03	2.120E+03	0.000E+00	0.000E+00	0.000E+00
TEEN	8.460E+02	3.960E+06	1.570E+04	6.510E+03	3.890E+03	0.000E+00	0.000E+00	0.000E+00
CHILD	2.070E+03	3.170E+06	3.880E+04	1.220E+04	6.730E+03	0.000E+00	0.000E+00	0.000E+00
INFANT	3.110E+03	3.190E+06	5.560E+04	2.280E+04	9.200E+03	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.510E+01	3.470E+05	1.030E+03	4.290E+02	2.540E+02	0.000E+00	0.000E+00	0.000E+00
TEEN	1.010E+02	4.750E+05	1.890E+03	7.810E+02	4.670E+02	0.000E+00	0.000E+00	0.000E+00
CHILD	2.480E+02	3.810E+05	4.660E+03	1.460E+03	8.080E+02	0.000E+00	0.000E+00	0.000E+00
INFANT	3.740E+02	3.830E+05	6.670E+03	2.730E+03	1.100E+03	0.000E+00	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.830E+03	2.590E+04	1.090E+05	4.540E+04	2.690E+04	0.000E+00	2.460E+05	0.000E+00
TEEN	8.320E+03	2.740E+04	1.550E+05	6.420E+04	3.830E+04	0.000E+00	4.240E+05	0.000E+00
CHILD	1.150E+04	1.230E+04	2.150E+05	6.710E+04	3.720E+04	0.000E+00	3.790E+05	0.000E+00
INFANT	5.590E+03	4.700E+03	1.010E+05	3.840E+04	1.700E+04	0.000E+00	3.120E+05	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: I131

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	3.190E+05
TEEN	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	3.190E+05
CHILD	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	3.190E+05
INFANT	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	2.630E+05	3.190E+05

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.000E+06	4.630E+05	1.230E+06	1.750E+06	3.010E+06	5.750E+08	0.000E+00	0.000E+00
TEEN	8.770E+05	3.230E+05	1.170E+06	1.630E+06	2.810E+06	4.770E+08	0.000E+00	0.000E+00
CHILD	1.240E+06	1.940E+05	2.170E+06	2.180E+06	3.580E+06	7.220E+08	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.320E+05	6.070E+04	1.610E+05	2.300E+05	3.940E+05	7.540E+07	0.000E+00	0.000E+00
TEEN	1.010E+05	3.700E+04	1.340E+05	1.870E+05	3.220E+05	5.460E+07	0.000E+00	0.000E+00
CHILD	1.420E+05	2.220E+04	2.480E+05	2.490E+05	4.090E+05	8.240E+07	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.630E+06	1.670E+06	4.420E+06	6.330E+06	1.080E+07	2.070E+09	0.000E+00	0.000E+00
TEEN	6.040E+06	2.220E+06	8.020E+06	1.120E+07	1.930E+07	3.280E+09	0.000E+00	0.000E+00
CHILD	1.110E+07	1.740E+06	1.950E+07	1.960E+07	3.210E+07	6.470E+09	0.000E+00	0.000E+00
INFANT	2.100E+07	1.710E+06	4.060E+07	4.790E+07	5.590E+07	1.570E+10	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.350E+06	2.000E+06	5.310E+06	7.590E+06	1.300E+07	2.490E+09	0.000E+00	0.000E+00
TEEN	7.240E+06	2.670E+06	9.630E+06	1.350E+07	2.320E+07	3.930E+09	0.000E+00	0.000E+00
CHILD	1.330E+07	2.090E+06	2.340E+07	2.350E+07	3.860E+07	7.770E+09	0.000E+00	0.000E+00
INFANT	2.530E+07	2.050E+06	4.880E+07	5.740E+07	6.710E+07	1.890E+10	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	6.490E+02	1.990E+02	7.990E+02	1.130E+03	1.940E+03	3.780E+05	0.000E+00	0.000E+00
TEEN	8.370E+02	2.060E+02	1.120E+03	1.560E+03	2.660E+03	4.640E+05	0.000E+00	0.000E+00
CHILD	8.640E+02	9.010E+01	1.520E+03	1.520E+03	2.500E+03	5.150E+05	0.000E+00	0.000E+00
INFANT	6.210E+02	3.360E+01	1.200E+03	1.410E+03	1.640E+03	4.700E+05	0.000E+00	0.000E+00

Table B4-7b Continued

INDIVIDUAL DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE: I133

PATHWAY: PLUME

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TEEN	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CHILD	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: GROUND

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	4.560E+04
TEEN	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	4.560E+04
CHILD	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	4.560E+04
INFANT	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	3.750E+04	4.560E+04

PATHWAY: VEGETABLE

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.680E+04	4.960E+04	3.180E+04	5.520E+04	9.640E+04	8.120E+06	0.000E+00	0.000E+00
TEEN	1.530E+04	3.790E+04	2.950E+04	5.000E+04	8.780E+04	6.990E+06	0.000E+00	0.000E+00
CHILD	2.520E+04	2.680E+04	5.380E+04	6.650E+04	1.110E+05	1.240E+07	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: MEAT

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.050E-03	8.990E-03	5.750E-03	1.000E-02	1.740E-02	1.470E+00	0.000E+00	0.000E+00
TEEN	2.490E-03	6.170E-03	4.810E-03	8.160E-03	1.430E-02	1.140E+00	0.000E+00	0.000E+00
CHILD	4.180E-03	4.450E-03	8.930E-03	1.100E-02	1.840E-02	2.050E+00	0.000E+00	0.000E+00
INFANT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PATHWAY: COW MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.140E+04	9.270E+04	5.930E+04	1.030E+05	1.800E+05	1.520E+07	0.000E+00	0.000E+00
TEEN	5.600E+04	1.390E+05	1.080E+05	1.840E+05	3.220E+05	2.560E+07	0.000E+00	0.000E+00
CHILD	1.230E+05	1.310E+05	2.630E+05	3.250E+05	5.420E+05	6.040E+07	0.000E+00	0.000E+00
INFANT	2.370E+05	1.370E+05	5.550E+05	8.090E+05	9.510E+05	1.470E+08	0.000E+00	0.000E+00

PATHWAY: GOAT MILK

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	3.770E+04	1.110E+05	7.110E+04	1.240E+05	2.160E+05	1.820E+07	0.000E+00	0.000E+00
TEEN	6.720E+04	1.670E+05	1.300E+05	2.200E+05	3.870E+05	3.080E+07	0.000E+00	0.000E+00
CHILD	1.480E+05	1.570E+05	3.160E+05	3.900E+05	6.510E+05	7.250E+07	0.000E+00	0.000E+00
INFANT	2.840E+05	1.640E+05	6.670E+05	9.710E+05	1.140E+06	1.770E+08	0.000E+00	0.000E+00

PATHWAY: INHALATION

	T. BODY	GI	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.430E+02	2.810E+02	2.740E+02	4.690E+02	8.190E+02	6.820E+04	0.000E+00	0.000E+00
TEEN	1.970E+02	3.270E+02	3.850E+02	6.490E+02	1.140E+03	9.260E+04	0.000E+00	0.000E+00
CHILD	2.440E+02	1.740E+02	5.250E+02	6.440E+02	1.070E+03	1.220E+05	0.000E+00	0.000E+00
INFANT	1.780E+02	6.830E+01	4.200E+02	6.080E+02	7.100E+02	1.130E+05	0.000E+00	0.000E+00

Table B4-8: Liquid Parameter Values for Eq. 4.2g and 4.2h Population Dose Estimates

Parameter	Parameter Value				
U	Adult	Teen	Child	Infant	
Colorado River	6.9	5.2	2.2	0	kg/y saltwater fish
	1	0.75	0.33	0	kg/y salt water vertebrate
Matagorda Bay	6.9	5.2	2.2	0	kg/y saltwater fish
	1	0.75	0.33	0	kg/y saltwater invertebrate
Ub					Adult
	Teen	Child	Infant		
Colorado River	8.3	47	9.5	0	hr/y
Matagorda Bay	8.3	47	9.5	0	hr/y
M					
Colorado River	1.00				
Matagorda Bay	163				
F					
Colorado River	600 cfs				
N(i)					
Colorado River	values by nuclide "i" and pathway from Table B4-1				
Matagorda Bay					
T					
fish ingestion	168 hr				
shell fish ingestion	240 hr				
shoreline exposure	0 hr				
Tb	1.31E+05 hr				
W					
Colorado River	0.2				
Matagorda Bay	0.5				
B(i)	nuclide specific from Table A-1, Regulatory Guide 1.109				
D(a,i,j)	nuclide specific from Table E-11 or E-6, Regulatory Guide 1.109				

Table B4-9: Pathways for Calculating Population Doses from Liquid Effluents

PATHWAYS	NUMBER OF RECEPTORS AT LOCATIONS:		
	Colorado River	Matagorda Bay	Little Robbins
Shore Exposure	151,500	151,500	0
Salt Water Fish Ingestion	18,500	18,500	0
Salt Water Invertebrate Ingestion	0	303,000	0
Fresh Water Fish Ingestion	0	0	0
Potable Water	0	0	0
Irrigated Crops	0	0	0
Animal Products	0	0	0

Table B4-10a: Population Distribution

Distance (miles)

Direction	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	10 - 20	20 - 30	30 - 40	40 - 50
N	0.	4.	0.	0.	30.	2,982.	1,867.	14,992.	5,947.
NNE	0.	0.	0.	0.	90.	22,707.	2,298.	6,893.	7,719.
NE	0.	0.	0.	0.	37.	2,810.	7,937.	21,189.	16,726.
ENE	0.	0.	0.	3.	482.	1,889.	3,509.	21,856.	67,308.
E	0.	0.	2.	0.	47.	864.	1,067	.0.	407.
ESE	0.	0.	112.	82.	64.	233.	0.	0.	0.
SE	0.	0.	51.	59.	461.	0.	0.	0.	0.
SSE	0.	0.	0.	4.	149.	45.	0.	0.	0.
S	0.	0.	0.	0.	0.	0.	0.	0.	0.
SSW	0.	0.	0.	2.	7.	171.	0.	0.	0.
SW	0.	0.	0.	13.	64.	220.	0.	2,027.	1,453.
WSW	0.	6.	2.	21.	120.	5,334.	1,592.	14,096.	8,797.
W	0.	0.	0.	12.	127.	642.	845.	1,922.	4,672.
WNW	0.	0.	0.	32.	404.	732.	1,515.	8,805.	2,611.
NW	0.	25.	0.	20.	245.	819.	1,430.	1,751.	2,579.
NNW	0.	0.	12.	11.	7.	941.	4,967.	13,907.	3,592.

The population distribution of this table reflects the estimated 1990 population within 50 miles of STP from the UFSAR, Rev. 0, and is applicable for the plume, ground and inhalation pathways.

Table B4-10b: Vegetation Ingestion Pathway Population Distribution

Distance (miles)

Direction	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	10 - 20	20 - 30	30 - 40	40 - 50
N	124.	207.	289.	372.	3,141.	6,778.	11,656.	3,472.	5,621.
NNE	124.	207.	289.	322.	3,141.	7,109.	10,912.	7,522.	9,010.
NE	124.	207.	289.	372.	3,141.	7,109.	4,877.	9,341.	11,656.
ENE	107.	182.	256.	198.	2,067.	1,157.	1,405.	0.	0.
E	107.	182.	256.	198.	2,067.	992.	1,323.	83.	0.
ESE	107.	182.	256.	198.	2,067.	248.	0.	0.	0.
SE	0.	0.	0.	198.	2,067.	0.	0.	0.	0.
SSE	0.	0.	0.	0.	0.	0.	0.	0.	0.
S	0.	0.	0.	0.	0.	0.	0.	0.	0.
SSW	0.	0.	0.	0.	0.	827.	0.	0.	0.
SW	0.	0.	0.	99.	827.	827.	0.	4,133.	7,109.
WSW	41.	66.	99.	99.	827.	3,555.	0.	149.	9,010.
W	41.	66.	99.	99.	827.	2,811.	0.	413.	3,224.
WNW	41.	66.	99.	99.	827.	3,224.	0.	0.	248.
NW	41.	66.	99.	100.	827.	5,621.	12,730.	17,277.	18,351.
NNW	124.	207.	289.	372.	3,141.	6,778.	16,863.	23,229.	28,106.

The population distribution of this table has been normalized to reflect the non-leafy vegetable (rice) production within 50 miles of STP (Wyle Research Report WR 84-34, Table 13(a)).

Table B4-10c: Beef Ingestion Pathway Population Distribution

Distance (miles)

Direction	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	10 - 20	20 - 30	30 - 40	40 - 50
N	36.	57.	83.	108.	877.	3,353.	6,344.	9,594.	13,669.
NNE	36.	57.	83.	108.	877.	4,539.	6,551.	6,809.	18,930.
NE	36.	57.	83.	108.	877.	4,539.	6,344.	7,376.	9,594.
ENE	62.	103.	144.	139.	1,186.	5,364.	7,273.	7,376.	8,872.
E	62.	103.	144.	139.	1,186.	4,849.	6,344.	1,805.	206.
ESE	62.	103.	144.	139.	1,186.	1,135.	0.	0.	0.
SE	0.	0.	0.	139.	1,186.	0.	0.	0.	0.
SSE	0.	0.	0.	103.	928.	0.	0.	0.	0.
S	0.	0.	0.	103.	928.	0.	0.	0.	0.
SSW	0.	0.	0.	103.	928.	1,032.	0.	0.	0.
SW	0.	0.	0.	103.	928.	464.	258.	4,745.	10,058.
WSW	21.	36.	52.	67.	567.	2,115.	4,849.	2,631.	5,261.
W	21.	36.	52.	67.	567.	2,218.	5,261.	6,912.	7,170.
WNW	21.	36.	52.	67.	567.	2,424.	5,261.	7,376.	8,872.
NW	21.	36.	52.	67.	567.	2,218.	6,344.	8,872.	12,637.
NNW	36.	57.	83.	108.	877.	3,456.	6,757.	9,594.	13,823.

The population distribution of this table has been normalized to reflect the Beef production within 50 miles of STP (Wyle Research Report WR 84-34, Table 12(h)).

Table B4-11: Population Dose Factors

NOTES:

Liquid Pathway Dose Factors - Table B4-11a

This table consists of two sections. The first is a listing of pathway dose factors by nuclide and pathway for liquid effluents. The product of a particular factor and a quantity of activity (Ci) released to the reservoir will yield the dose (mrem) to an individual. The product of the pathway dose and the number of people exposed via the pathway determines the population dose from the pathway (man-mrem).

The units for all liquid dose factors are (mrem/Ci).

The factors used by the computer codes that perform these calculations may differ by a few percent due to round-off errors. Moreover, nuclides with vanishing small factors (less than 1.0E-20 mrem/Ci) have no impact on the dose calculations and are set to zero. Some nuclides may have zeros for all pathways because Regulatory Guide 1.109 data result in zero valued factors.

Gaseous Pathway Dose Factors - Table B4-11b

The second section of this table consists of a listing by nuclide of the gaseous pathway dose factors. These factors were calculated using a code similar to GASPAR and are based on the methods of Regulatory Guide 1.109.

The units used for noble gases, tritium, and all nuclides for the inhalation pathway are (mrem-m^3/Ci-sec). The product of this pathway dose factor, the release (Ci), and the appropriate depleted X/Q (sec/m^3) or X/Q (for noble gases, tritium and carbon 14) yields the dose in (mrem) to a member of the general population at a given location.

The units used for all other nuclides in all other pathways are (mrem-m^2/Ci). The product of this pathway dose factor, the release (Ci), and the appropriate D/Q yields the dose (mrem) to an individual at a given location.

Some nuclides may have zeros for all pathways because Regulatory Guide 1.109 data result in zero valued factors.

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : H3

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.70E-06	1.70E-06	0.00E+00	1.70E-06	1.70E-06	1.70E-06	1.70E-06

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.50E-08	8.50E-08	0.00E+00	8.50E-08	8.50E-08	8.50E-08	8.50E-08

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.61E-10	8.61E-10	0.00E+00	8.61E-10	8.61E-10	8.61E-10	8.61E-10

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.28E-08	1.28E-08	0.00E+00	1.28E-08	1.28E-08	1.28E-08	1.28E-08

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.29E-10	1.29E-10	0.00E+00	1.29E-10	1.29E-10	1.29E-10	1.29E-10

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : C14

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.72E-02	1.72E-02	8.62E-02	1.72E-02	1.72E-02	1.72E-02	1.72E-02

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.37E-04	3.37E-04	1.68E-03	3.37E-04	3.37E-04	3.37E-04	3.37E-04

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.41E-06	3.41E-06	1.71E-05	3.41E-06	3.41E-06	3.41E-06	3.41E-06

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.83E-05	3.83E-05	1.91E-04	3.83E-05	3.83E-05	3.83E-05	3.83E-05

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.87E-07	3.87E-07	1.94E-06	3.87E-07	3.87E-07	3.87E-07	3.87E-07

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NA24

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.23E-17	1.23E-17	1.23E-17	1.23E-17	1.23E-17	1.23E-17	1.23E-17

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	9.69E-17	1.12E-16

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	4.84E-18	5.61E-18

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.22E-19	1.42E-19

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : P32

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.09E-03	1.42E-02	1.58E-01	9.24E-03	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.82E-05	2.05E-04	2.28E-03	1.34E-04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.93E-07	2.08E-06	2.31E-05	1.36E-06	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.15E-05	2.67E-05	2.98E-04	1.75E-05	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.17E-07	2.70E-07	3.02E-06	1.77E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CR51

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.30E-08	2.67E-06	0.00E+00	0.00E+00	2.70E-09	7.62E-09	1.67E-08

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.30E-09	2.66E-07	0.00E+00	0.00E+00	2.69E-10	7.61E-10	1.66E-09

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.32E-11	2.69E-09	0.00E+00	0.00E+00	2.73E-12	7.70E-12	1.68E-11

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.80E-10	1.79E-07	0.00E+00	0.00E+00	1.82E-10	5.14E-10	1.12E-09

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.90E-12	1.81E-09	0.00E+00	0.00E+00	1.84E-12	5.21E-12	1.14E-11

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	6.50E-09	7.68E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.25E-10	3.84E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	8.22E-12	9.71E-12

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MN54

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.44E-04	1.88E-03	0.00E+00	7.13E-04	2.11E-04	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.91E-06	1.29E-04	0.00E+00	4.90E-05	1.45E-05	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.00E-07	1.31E-06	0.00E+00	4.96E-07	1.46E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.04E-06	1.35E-05	0.00E+00	5.15E-06	1.52E-06	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.06E-08	1.37E-07	0.00E+00	5.21E-08	1.54E-08	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.80E-05	3.28E-05

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.40E-06	1.64E-06

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	3.53E-08	4.14E-08

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MN56

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : FE55

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.51E-05	1.09E-04	3.40E-04	2.23E-04	0.00E+00	0.00E+00	1.27E-04

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.26E-05	1.63E-04	5.09E-04	3.34E-04	0.00E+00	0.00E+00	1.90E-04

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.36E-07	1.65E-06	5.15E-06	3.38E-06	0.00E+00	0.00E+00	1.92E-06

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.02E-05	1.57E-04	4.94E-04	3.24E-04	0.00E+00	0.00E+00	1.84E-04

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.12E-07	1.59E-06	5.00E-06	3.28E-06	0.00E+00	0.00E+00	1.86E-06

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : FE59

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.87E-05	1.34E-04	2.13E-05	4.67E-05	0.00E+00	0.00E+00	1.33E-05

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.81E-05	2.01E-04	3.19E-05	6.99E-05	0.00E+00	0.00E+00	1.99E-05

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.84E-07	2.03E-06	3.22E-07	7.08E-07	0.00E+00	0.00E+00	2.02E-07

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.60E-05	1.85E-04	2.96E-05	6.48E-05	0.00E+00	0.00E+00	1.85E-05

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.64E-07	1.87E-06	2.99E-07	6.56E-07	0.00E+00	0.00E+00	1.87E-07

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	6.94E-07	8.16E-07

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.47E-08	4.07E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	8.77E-10	1.03E-09

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CO58

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.07E-06	5.21E-05	0.00E+00	2.98E-06	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.06E-07	5.20E-06	0.00E+00	2.98E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.14E-09	5.26E-08	0.00E+00	3.02E-09	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.99E-07	7.33E-06	0.00E+00	4.21E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.01E-08	7.42E-08	0.00E+00	4.27E-09	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.64E-06	1.93E-06

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	8.21E-08	9.62E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.08E-09	2.44E-09

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CO60

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.61E-04	3.21E-03	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.60E-05	3.21E-04	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.66E-07	3.25E-06	0.00E+00	2.01E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.70E-05	4.65E-04	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.79E-07	4.71E-06	0.00E+00	2.92E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.02E-03	2.38E-03

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.01E-04	1.19E-04

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.55E-06	3.00E-06

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NI63

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.56E-03	8.87E-04	7.59E-02	5.00E-03	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.28E-04	4.43E-05	3.79E-03	2.50E-04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.29E-06	4.48E-07	3.84E-05	2.53E-06	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.66E-05	1.61E-05	1.38E-03	9.10E-05	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.72E-07	1.63E-07	1.40E-05	9.21E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NI65

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CU64

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	2.82E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	1.88E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.47E-19	2.80E-19

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	5.00E-21	7.54E-21

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZN65

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.52E-03	5.12E-03	3.03E-03	9.45E-03	6.24E-03	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.26E-04	2.56E-04	1.51E-04	4.72E-04	3.12E-04	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.28E-06	2.59E-06	1.53E-06	4.78E-06	3.15E-06	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.15E-04	9.20E-04	5.46E-04	1.70E-03	1.12E-03	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.25E-06	9.31E-06	5.52E-06	1.72E-05	1.14E-05	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.19E-05	1.37E-05

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	5.94E-07	6.83E-07

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.50E-08	1.73E-08

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZN69

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR83

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR84

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BR85

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB86

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.64E-04	8.95E-05	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.46E-08	1.85E-08	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.53E-10	1.88E-10	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.46E-08	4.93E-09	0.00E+00	2.96E-08	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.48E-10	5.00E-11	0.00E+00	2.99E-10	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	7.08E-09	8.09E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.53E-10	4.04E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	8.94E-12	1.02E-11

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB88

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RB89

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR89

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.58E-05	7.04E-05	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.24E-08	2.34E-07	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.31E-10	2.37E-09	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.35E-08	3.26E-07	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.44E-10	3.30E-09	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	6.39E-11	7.42E-11

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.19E-12	3.70E-12

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	8.08E-14	9.38E-14

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR90

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.29E-01	2.48E-02	9.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.63E-04	8.25E-05	3.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.72E-06	8.35E-07	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.11E-03	1.20E-04	4.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.12E-05	1.21E-06	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR91

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : SR92

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y90

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.18E-13	3.78E-08	4.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.90E-15	1.89E-09	2.20E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.98E-17	1.91E-11	2.23E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.58E-14	5.04E-09	5.91E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.60E-16	5.10E-11	5.98E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.28E-14	2.70E-14

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.14E-15	1.35E-15

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.89E-17	3.41E-17

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y91M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y91

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.72E-09	1.10E-04	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.36E-10	5.52E-06	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.40E-12	5.58E-08	1.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.89E-09	3.09E-05	7.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.91E-11	3.13E-07	7.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	3.75E-09	4.22E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.87E-10	2.11E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	4.74E-12	5.33E-12

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y92

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : Y93

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZR95

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.65E-09	6.36E-06	7.76E-09	2.32E-09	3.56E-09	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.99E-09	1.92E-05	2.35E-08	7.02E-09	1.08E-08	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.05E-11	1.95E-07	2.38E-10	7.10E-11	1.09E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.82E-10	1.08E-06	1.33E-09	3.96E-10	6.08E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.85E-12	1.09E-08	1.34E-11	4.01E-12	6.15E-12	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	9.49E-07	1.10E-06

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	4.74E-08	5.50E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.20E-09	1.39E-09

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ZR97

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	3.42E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	1.03E-15	1.97E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	1.05E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	3.14E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	3.18E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.55E-16	1.81E-16

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	7.75E-18	9.02E-18

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.96E-19	2.28E-19

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NB95

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.93E-06	1.78E-02	6.52E-06	3.41E-06	3.33E-06	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.62E-08	8.90E-04	3.26E-07	1.70E-07	1.66E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.74E-10	9.01E-06	3.30E-09	1.72E-09	1.69E-09	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.41E-11	4.06E-07	1.49E-10	7.78E-11	7.61E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.46E-13	4.11E-09	1.51E-12	7.88E-13	7.71E-13	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.59E-07	3.05E-07

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.29E-08	1.52E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	3.27E-10	3.85E-10

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : MO99

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.77E-10	1.76E-09	0.00E+00	8.83E-10	1.98E-09	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.84E-12	8.80E-11	0.00E+00	4.41E-11	9.90E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.95E-14	8.90E-13	0.00E+00	4.47E-13	1.00E-12	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.06E-13	6.00E-12	0.00E+00	3.02E-12	6.77E-12	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.13E-15	6.07E-14	0.00E+00	3.06E-14	6.86E-14	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.31E-11	2.67E-11

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.15E-12	1.33E-12

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.92E-14	3.38E-14

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TC99M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TC101

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU103

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.25E-08	7.24E-06	7.74E-08	0.00E+00	2.71E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.87E-10	1.08E-07	1.16E-09	0.00E+00	4.06E-09	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.93E-12	1.10E-09	1.17E-11	0.00E+00	4.11E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.25E-08	4.97E-06	5.35E-08	0.00E+00	1.87E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.27E-10	5.04E-08	5.41E-10	0.00E+00	1.89E-09	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.36E-07	2.75E-07

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.18E-08	1.38E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.98E-10	3.48E-10

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU105

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : RU106

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.79E-06	7.33E-04	1.42E-05	0.00E+00	2.55E-05	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.68E-08	1.10E-05	2.12E-07	0.00E+00	3.82E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.71E-10	1.11E-07	2.15E-09	0.00E+00	3.87E-09	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.30E-06	5.28E-04	1.03E-05	0.00E+00	1.84E-05	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.31E-08	5.35E-06	1.04E-07	0.00E+00	1.87E-07	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	9.97E-06	1.20E-05

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	4.98E-07	5.97E-07

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.26E-08	1.51E-08

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : AG110M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	5.64E-05	6.57E-05

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	2.81E-06	3.28E-06

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	7.12E-08	8.31E-08

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE125M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.01E-05	2.41E-04	7.56E-05	2.58E-05	2.04E-04	2.22E-05	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.26E-08	3.01E-07	9.44E-08	3.22E-08	2.54E-07	2.77E-08	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.28E-10	3.05E-09	9.55E-10	3.26E-10	2.57E-09	2.81E-10	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.78E-08	4.22E-07	1.33E-07	4.53E-08	3.55E-07	3.91E-08	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.80E-10	4.27E-09	1.35E-09	4.59E-10	3.60E-09	3.95E-10	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	5.37E-09	7.37E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	2.68E-10	3.68E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	6.79E-12	9.31E-12

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE127M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.82E-05	1.07E-03	3.99E-04	1.35E-04	1.51E-03	9.97E-05	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.02E-08	1.33E-06	4.98E-07	1.68E-07	1.89E-06	1.24E-07	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.09E-10	1.35E-08	5.04E-09	1.70E-09	1.91E-08	1.26E-09	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.62E-08	1.90E-06	7.14E-07	2.40E-07	2.70E-06	1.78E-07	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.73E-10	1.92E-08	7.23E-09	2.43E-09	2.73E-08	1.80E-09	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	6.37E-10	7.53E-10

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.18E-11	3.76E-11

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	8.05E-13	9.52E-13

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE127

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE129M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.48E-05	6.33E-04	1.57E-04	5.52E-05	6.12E-04	5.29E-05	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.09E-08	7.90E-07	1.96E-07	6.90E-08	7.64E-07	6.60E-08	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.13E-10	8.00E-09	1.99E-09	6.98E-10	7.73E-09	6.68E-10	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.24E-08	1.08E-06	2.69E-07	9.45E-08	1.05E-06	9.05E-08	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.29E-10	1.09E-08	2.73E-09	9.56E-10	1.06E-08	9.17E-10	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	3.53E-08	4.13E-08

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.76E-09	2.06E-09

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	4.46E-11	5.21E-11

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE129

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE131M

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.76E-12	4.75E-10	1.20E-11	5.46E-12	5.50E-11	9.03E-12	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.94E-15	5.93E-13	1.49E-14	6.81E-15	6.87E-14	1.13E-14	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	6.02E-17	6.01E-15	1.51E-16	6.89E-17	6.95E-16	1.14E-16	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.64E-15	1.63E-13	4.13E-15	1.88E-15	1.90E-14	3.12E-15	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.66E-17	1.65E-15	4.18E-17	1.90E-17	1.92E-16	3.16E-17	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	3.06E-13	3.60E-13

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.53E-14	1.80E-14

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	3.86E-16	4.55E-16

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE131

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : TE132

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.47E-08	1.40E-06	5.88E-08	3.54E-08	3.38E-07	4.08E-08	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.33E-11	1.74E-09	7.35E-11	4.41E-11	4.22E-10	5.10E-11	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.39E-13	1.77E-11	7.44E-13	4.47E-13	4.28E-12	5.16E-13	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.34E-11	1.34E-09	5.67E-11	3.40E-11	3.25E-10	3.93E-11	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.38E-13	1.35E-11	5.74E-13	3.44E-13	3.29E-12	3.98E-13	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	5.03E-11	5.92E-11

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	2.51E-12	2.96E-12

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	6.36E-14	7.48E-14

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I130

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	9.31E-21	0.00E+00	1.30E-20	2.01E-20	1.15E-18	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-20	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.32E-18	1.60E-18

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	6.60E-20	8.01E-20

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I131

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.76E-08	3.90E-08	1.29E-07	1.72E-07	2.93E-07	5.57E-05	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.25E-09	1.30E-09	4.29E-09	5.72E-09	9.74E-09	1.85E-06	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.29E-11	1.31E-11	4.35E-11	5.79E-11	9.86E-11	1.88E-08	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.83E-09	7.27E-10	2.42E-09	3.22E-09	5.48E-09	1.04E-06	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.85E-11	7.36E-12	2.45E-11	3.26E-11	5.55E-11	1.06E-08	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.96E-09	3.60E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.48E-10	1.80E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	3.74E-12	4.54E-12

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I132

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I133

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.71E-16	1.94E-15	1.50E-15	2.43E-15	4.21E-15	3.71E-13	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.57E-17	6.45E-17	4.98E-17	8.08E-17	1.40E-16	1.23E-14	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.60E-19	6.53E-19	5.04E-19	8.18E-19	1.42E-18	1.25E-16	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.70E-18	4.26E-18	3.31E-18	5.35E-18	9.27E-18	8.19E-16	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.72E-20	4.31E-20	3.35E-20	5.42E-20	9.39E-20	8.29E-18	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.10E-15	2.56E-15

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.05E-16	1.28E-16

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.66E-18	3.24E-18

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I134

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : I135

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS134

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.81E-04	3.99E-06	1.19E-04	2.65E-04	8.49E-05	0.00E+00	2.90E-05

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.11E-06	2.45E-08	7.30E-07	1.62E-06	5.21E-07	0.00E+00	1.78E-07

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.64E-05	3.61E-07	1.08E-05	2.40E-05	7.70E-06	0.00E+00	2.63E-06

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.00E-07	2.21E-09	6.64E-08	1.47E-07	4.73E-08	0.00E+00	1.61E-08

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.54E-05	1.80E-05

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.36E-07	2.76E-07

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS136

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.22E-07	3.10E-08	8.52E-08	3.15E-07	1.74E-07	0.00E+00	2.45E-08

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.36E-09	1.90E-10	5.22E-10	1.94E-09	1.07E-09	0.00E+00	1.51E-10

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.72E-08	2.40E-09	6.63E-09	2.45E-08	1.35E-08	0.00E+00	1.91E-09

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.06E-10	1.47E-11	4.07E-11	1.50E-10	8.29E-11	0.00E+00	1.17E-11

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.36E-09	3.81E-09

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	5.16E-11	5.84E-11

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS137

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.14E-04	1.59E-05	7.55E-04	9.60E-04	3.24E-04	0.00E+00	1.11E-04

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.15E-06	9.77E-08	4.63E-06	5.89E-06	1.99E-06	0.00E+00	6.82E-07

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.66E-05	1.45E-06	6.89E-05	8.74E-05	2.95E-05	0.00E+00	1.01E-05

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.86E-07	8.87E-09	4.22E-07	5.36E-07	1.81E-07	0.00E+00	6.21E-08

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.11E-04	1.30E-04

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.71E-06	1.99E-06

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CS138

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA139

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA140

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.31E-08	8.61E-07	5.19E-07	6.07E-10	2.05E-10	0.00E+00	3.57E-10

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.14E-09	1.07E-07	6.48E-08	7.57E-11	2.56E-11	0.00E+00	4.45E-11

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.19E-11	1.09E-09	6.56E-10	7.67E-13	2.59E-13	0.00E+00	4.51E-13

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.13E-09	1.33E-07	8.04E-08	9.38E-11	3.16E-11	0.00E+00	5.51E-11

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.19E-11	1.34E-09	8.14E-10	9.49E-13	3.20E-13	0.00E+00	5.58E-13

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	8.75E-09	1.00E-08

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	4.37E-10	4.99E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.11E-11	1.26E-11

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA141

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : BA142

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : LA140

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.65E-15	8.47E-10	2.82E-14	1.32E-14	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.82E-16	4.23E-11	1.41E-15	6.59E-16	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.84E-18	4.28E-13	1.42E-17	6.67E-18	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.08E-16	7.12E-11	2.38E-15	1.11E-15	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.12E-18	7.21E-13	2.41E-17	1.13E-17	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	7.15E-12	8.10E-12

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	3.57E-13	4.05E-13

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	9.03E-15	1.02E-14

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : LA142

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE141

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.32E-11	6.30E-07	3.05E-10	1.94E-10	8.92E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.16E-11	3.15E-07	1.52E-10	9.67E-11	4.46E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.17E-13	3.18E-09	1.54E-12	9.79E-13	4.51E-13	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.53E-11	2.57E-06	1.25E-09	7.94E-10	3.65E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	9.64E-13	2.60E-08	1.27E-11	8.03E-12	3.70E-12	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.34E-08	2.63E-08

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.17E-09	1.32E-09

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.95E-11	3.33E-11

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE143

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.36E-18	2.05E-12	9.09E-17	6.30E-14	2.76E-17	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.68E-18	1.02E-12	4.54E-17	3.15E-14	1.38E-17	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.72E-20	1.04E-14	4.60E-19	3.19E-16	1.39E-19	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.10E-18	1.97E-12	8.77E-17	6.07E-14	2.65E-17	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	7.19E-20	1.99E-14	8.87E-19	6.14E-16	2.69E-19	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.96E-13	2.23E-13

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	9.80E-15	1.11E-14

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	2.48E-16	2.82E-16

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : CE144

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.04E-08	5.26E-05	1.95E-07	7.67E-08	4.50E-08	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.22E-09	2.63E-05	9.73E-08	3.83E-08	2.25E-08	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.28E-11	2.66E-07	9.85E-10	3.88E-10	2.27E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.54E-08	2.27E-04	8.46E-07	3.33E-07	1.95E-07	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.59E-10	2.30E-06	8.56E-09	3.37E-09	1.97E-09	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	1.27E-06	1.47E-06

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	6.34E-08	7.33E-08

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.60E-09	1.86E-09

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : PR143

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	8.36E-11	5.91E-06	1.68E-09	6.37E-10	3.64E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.17E-12	2.95E-07	8.41E-11	3.18E-11	1.82E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.22E-14	2.99E-09	8.52E-13	3.22E-13	1.84E-13	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.09E-11	1.47E-06	4.21E-10	1.59E-10	9.08E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.12E-13	1.49E-08	4.27E-12	1.61E-12	9.19E-13	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : PR144

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	0.00E+00	0.00E+00

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : ND147

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.03E-11	3.27E-06	7.49E-10	7.99E-10	4.62E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.51E-12	1.63E-07	3.74E-11	3.99E-11	2.31E-11	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.54E-14	1.65E-09	3.79E-13	4.04E-13	2.34E-13	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.22E-11	7.86E-07	1.81E-10	1.93E-10	1.11E-10	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.23E-13	7.95E-09	1.83E-12	1.95E-12	1.13E-12	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	2.78E-09	3.34E-09

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	1.39E-10	1.67E-10

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	3.51E-12	4.21E-12

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : W187

FOR PATHWAY: FRESHWATER FISH -- LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.49E-14	1.96E-11	8.71E-14	6.78E-14	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.10E-17	2.45E-14	1.09E-16	8.47E-17	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	3.14E-19	2.48E-16	1.10E-18	8.57E-19	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	5.61E-19	4.41E-16	1.97E-18	1.53E-18	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	0.00E+00	4.46E-18	1.99E-20	1.55E-20	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	9.86E-15	1.15E-14

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	4.92E-16	5.72E-16

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	1.25E-17	1.45E-17

Table B4-11a Continued

POPULATION DOSE FACTORS FOR LIQUID EFFLUENTS -- FOR ISOTOPE : NP239

FOR PATHWAY: FRESHWATER FISH - LITTLE ROBBINS SLOUGH

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	4.83E-15	1.47E-09	9.10E-14	8.34E-15	2.57E-14	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.41E-16	7.33E-11	4.54E-15	4.17E-16	1.28E-15	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER FISH - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	2.44E-18	7.42E-13	4.60E-17	4.22E-18	1.30E-17	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - COLORADO RIVER

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.45E-17	4.39E-12	2.74E-16	2.50E-17	7.71E-17	0.00E+00	0.00E+00

FOR PATHWAY: SALTWATER INVERTABRATES - MATAGORDA BAY

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG
ALL	1.47E-19	4.45E-14	2.77E-18	2.54E-19	7.81E-19	0.00E+00	0.00E+00

FOR PATHWAY: SHORELINE EXPOSURE - LITTLE ROBBINS SLOUGH

	T. BODY	SKIN
ALL	4.59E-12	5.32E-12

FOR PATHWAY: SHORELINE EXPOSURE - COLORADO RIVER

	T. BODY	SKIN
ALL	2.29E-13	2.66E-13

FOR PATHWAY: SHORELINE EXPOSURE - MATAGORDA BAY

	T. BODY	SKIN
ALL	5.80E-15	6.72E-15

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : H3

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.05E+01	2.05E+01	0.00E+00	2.05E+01	2.05E+01	2.05E+01	2.05E+01	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.69E+00	4.69E+00	0.00E+00	4.69E+00	4.69E+00	4.69E+00	4.69E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.01E+00	7.01E+00	0.00E+00	7.01E+00	7.01E+00	7.01E+00	7.01E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.90E+01	3.90E+01	0.00E+00	3.90E+01	3.90E+01	3.90E+01	3.90E+01	0.00E+00

Table B4-11b Continued
POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : C14

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.82E+03	3.82E+03	1.91E+04	3.82E+03	3.82E+03	3.82E+03	3.82E+03	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.96E+03	1.96E+03	9.78E+03	1.96E+03	1.96E+03	1.96E+03	1.96E+03	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.67E+03	1.67E+03	8.37E+03	1.67E+03	1.67E+03	1.67E+03	1.67E+03	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.31E+02	1.31E+02	6.98E+02	1.31E+02	1.31E+02	1.31E+02	1.31E+02	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : AR41

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	2.48E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR83M

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	1.20E-03	9.34E-02	3.39E-01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR85M

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.85E+01	1.85E+01	1.85E+01	1.85E+01	1.85E+01	1.85E+01	1.92E+01	6.79E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR85

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.55E-01	2.55E-01	2.55E-01	2.55E-01	2.55E-01	2.55E-01	8.48E-01	4.28E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR87

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	9.35E+01	9.35E+01	9.35E+01	9.35E+01	9.35E+01	9.35E+01	9.75E+01	4.16E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR88

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.33E+02	2.33E+02	2.33E+02	2.33E+02	2.33E+02	2.33E+02	2.34E+02	3.43E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR89

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.63E+02	2.63E+02	2.63E+02	2.63E+02	2.63E+02	2.63E+02	2.67E+02	6.24E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : KR90

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.47E+02	2.47E+02	2.47E+02	2.47E+02	2.47E+02	2.47E+02	2.50E+02	5.18E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE131M

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.45E+00	1.45E+00	1.45E+00	1.45E+00	1.45E+00	1.45E+00	1.80E+00	1.78E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE133M

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.98E+00	3.98E+00	3.98E+00	3.98E+00	3.98E+00	3.98E+00	4.44E+00	3.73E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE133

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00	5.00E+00	1.59E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE135M

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.94E+01	4.94E+01	4.94E+01	4.94E+01	4.94E+01	4.94E+01	4.97E+01	8.12E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE135

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.87E+01	2.87E+01	2.87E+01	2.87E+01	2.87E+01	2.87E+01	2.94E+01	9.25E+01

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE137

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.25E+01	2.25E+01	2.25E+01	2.25E+01	2.25E+01	2.25E+01	2.64E+01	4.13E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : XE138

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.40E+02	1.42E+02	2.93E+02

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CR51

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.02E+05	1.02E+05	1.02E+05	1.02E+05	1.02E+05	1.02E+05	1.02E+05	1.20E+05

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.80E+03	2.96E+05	0.00E+00	0.00E+00	3.50E+02	1.04E+03	2.20E+03	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.67E+02	3.39E+04	0.00E+00	0.00E+00	3.44E+01	9.76E+01	2.12E+02	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.72E+02	7.00E+04	0.00E+00	0.00E+00	8.91E+01	2.70E+02	5.66E+02	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.56E+00	9.09E+01	0.00E+00	0.00E+00	7.52E-01	2.07E+00	4.91E+02	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : MN54

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.02E+07	3.02E+07	3.02E+07	3.02E+07	3.02E+07	3.02E+07	3.02E+07	3.55E+07

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.15E+06	1.20E+07	0.00E+00	5.35E+06	1.56E+06	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.67E+04	4.74E+05	0.00E+00	1.81E+05	5.33E+04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.45E+04	2.29E+05	0.00E+00	1.11E+05	3.23E+04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.22E+02	2.09E+03	0.00E+00	1.30E+03	3.20E+02	0.00E+00	4.71E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : FE59

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.96E+06	5.96E+06	5.96E+06	5.96E+06	5.96E+06	5.96E+06	5.96E+06	7.00E+06

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.45E+06	2.00E+07	4.01E+06	8.19E+06	0.00E+00	0.00E+00	2.36E+06	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.45E+06	3.86E+07	6.19E+06	1.35E+07	0.00E+00	0.00E+00	3.85E+06	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.36E+05	2.29E+06	5.10E+05	1.01E+06	0.00E+00	0.00E+00	2.94E+05	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.78E+02	5.23E+03	4.34E+02	9.38E+02	0.00E+00	0.00E+00	3.53E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CO58

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	8.27E+06	8.27E+06	8.27E+06	8.27E+06	8.27E+06	8.27E+06	8.27E+06	9.68E+06

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.72E+06	1.02E+07	0.00E+00	6.85E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	8.95E+05	6.54E+06	0.00E+00	3.77E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.66E+05	8.87E+05	0.00E+00	6.48E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.35E+01	2.91E+03	0.00E+00	5.26E+01	0.00E+00	0.00E+00	3.17E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CO60

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	4.70E+08	5.53E+08

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	6.74E+06	3.79E+07	0.00E+00	2.75E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.46E+06	2.39E+07	0.00E+00	1.48E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.52E+05	2.81E+06	0.00E+00	2.21E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.25E+02	7.82E+03	0.00E+00	3.84E+02	0.00E+00	0.00E+00	2.03E+05	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : ZN65

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.63E+07	1.63E+07	1.63E+07	1.63E+07	1.63E+07	1.63E+07	1.63E+07	1.88E+07

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.16E+07	1.05E+07	7.54E+06	2.29E+07	1.49E+07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.21E+07	1.36E+07	8.11E+06	2.52E+07	1.67E+07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.39E+07	2.77E+07	2.17E+07	6.53E+07	4.24E+07	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.64E+03	1.48E+03	1.09E+03	3.40E+03	2.24E+03	0.00E+00	2.92E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : SR89

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.73E+02	4.73E+02	4.73E+02	4.73E+02	4.73E+02	4.73E+02	4.73E+02	5.48E+02

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	9.45E+06	3.35E+07	3.30E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.23E+05	9.84E+05	7.78E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	8.19E+05	2.63E+06	2.86E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.34E+02	1.01E+04	1.16E+04	0.00E+00	0.00E+00	0.00E+00	5.22E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : SR90

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	6.67E+09	6.48E+08	2.69E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.06E+08	3.28E+07	1.24E+09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.64E+08	7.07E+07	3.07E+09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.95E+05	2.07E+04	3.15E+06	0.00E+00	0.00E+00	0.00E+00	3.56E+05	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : ZR95

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.34E+06	5.34E+06	5.34E+06	5.34E+06	5.34E+06	5.34E+06	5.34E+06	6.20E+06

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	6.69E+03	2.10E+07	3.21E+04	8.94E+03	1.35E+04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	9.04E+03	3.45E+07	4.26E+04	1.27E+04	1.95E+04	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.30E+00	9.41E+03	1.60E+01	4.32E+00	6.47E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	8.34E+02	4.23E+03	3.96E+03	1.16E+03	1.78E+03	0.00E+00	6.16E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : SB124

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CS134

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.50E+08	1.50E+08	1.50E+08	1.50E+08	1.50E+08	1.50E+08	1.50E+08	1.75E+08

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.08E+08	2.44E+06	9.19E+07	1.90E+08	6.05E+07	0.00E+00	2.10E+07	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.14E+07	4.69E+05	1.42E+07	3.13E+07	1.00E+07	0.00E+00	3.42E+06	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	9.62E+07	2.20E+06	9.20E+07	1.86E+08	5.88E+07	0.00E+00	2.06E+07	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.95E+04	2.88E+02	1.37E+04	2.86E+04	9.57E+03	0.00E+00	3.37E+03	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CS136

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.29E+06	3.29E+06	3.29E+06	3.29E+06	3.29E+06	3.29E+06	3.29E+06	3.72E+06

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.41E+06	6.57E+05	2.27E+06	7.85E+06	4.29E+06	0.00E+00	6.17E+05	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.98E+05	1.11E+05	3.08E+05	1.13E+06	6.25E+05	0.00E+00	8.81E+04	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.05E+07	1.19E+06	4.53E+06	1.53E+07	8.33E+06	0.00E+00	1.21E+06	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.58E+03	3.23E+02	1.42E+03	4.92E+03	2.83E+03	0.00E+00	4.13E+02	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CS137

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.25E+08	2.25E+08	2.25E+08	2.25E+08	2.25E+08	2.25E+08	2.25E+08	2.62E+08

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.48E+07	2.42E+06	1.45E+08	1.72E+08	5.75E+07	0.00E+00	2.01E+07	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.37E+07	4.25E+05	2.04E+07	2.58E+07	8.68E+06	0.00E+00	2.97E+06	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	6.06E+07	2.01E+06	1.34E+08	1.54E+08	5.16E+07	0.00E+00	1.82E+07	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.14E+04	2.38E+02	1.81E+04	2.15E+04	7.61E+03	0.00E+00	2.69E+03	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : BA140

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.48E+05	4.48E+05	4.48E+05	4.48E+05	4.48E+05	4.48E+05	4.48E+05	5.12E+05

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.51E+05	9.60E+06	7.25E+06	7.88E+03	2.64E+03	0.00E+00	4.69E+03	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.86E+04	1.25E+06	7.63E+05	8.86E+02	2.99E+02	0.00E+00	5.20E+02	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.07E+04	5.97E+05	4.96E+05	5.26E+02	1.76E+02	0.00E+00	3.15E+02	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	9.39E+01	6.25E+03	1.48E+03	1.70E+00	5.71E-01	0.00E+00	4.56E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CE141

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.98E+05	2.98E+05	2.98E+05	2.98E+05	2.98E+05	2.98E+05	2.98E+05	3.36E+05

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.87E+02	1.27E+07	7.77E+03	4.64E+03	2.11E+03	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.64E+01	7.07E+05	3.47E+02	2.19E+02	1.01E+02	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	6.76E+00	1.33E+05	8.97E+01	5.24E+01	2.38E+01	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	5.79E+01	3.44E+03	7.64E+02	4.80E+02	2.19E+02	0.00E+00	1.34E+04	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : CE144

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.51E+06	1.51E+06	1.51E+06	1.51E+06	1.51E+06	1.51E+06	1.51E+06	1.75E+06

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.74E+04	1.50E+08	6.99E+05	2.60E+05	1.50E+05	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.73E+03	8.61E+06	3.23E+04	1.26E+04	7.41E+03	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	3.31E+02	1.20E+06	6.19E+03	2.25E+03	1.30E+03	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.00E+03	2.34E+04	1.31E+05	5.08E+04	2.96E+04	0.00E+00	2.88E+05	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : I131

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.88E+05	1.88E+05	1.88E+05	1.88E+05	1.88E+05	1.88E+05	1.88E+05	2.28E+05

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.29E+06	4.40E+05	1.83E+06	2.27E+06	3.84E+06	7.37E+08	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.11E+05	4.41E+04	1.48E+05	1.96E+05	3.33E+05	6.36E+07	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.82E+06	5.78E+05	2.66E+06	3.22E+06	5.42E+06	1.04E+09	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	7.04E+02	1.79E+02	9.59E+02	1.25E+03	2.10E+03	4.11E+05	0.00E+00	0.00E+00

Table B4-11b Continued

POPULATION DOSE FACTORS FOR GASEOUS EFFLUENTS -- FOR ISOTOPE : I133

FOR PATHWAY: PLUME

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: GROUND

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.68E+04	2.68E+04	2.68E+04	2.68E+04	2.68E+04	2.68E+04	2.68E+04	3.26E+04

FOR PATHWAY: VEGETABLE

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.34E+00	4.96E+00	4.66E+00	7.06E+00	1.21E+01	1.13E+03	0.00E+00	0.00E+00

FOR PATHWAY: MEAT

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	2.72E-03	6.77E-03	5.29E-03	8.54E-03	1.48E-02	1.31E+00	0.00E+00	0.00E+00

FOR PATHWAY: COW MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	4.28E+03	8.45E+03	8.61E+03	1.27E+04	2.18E+04	2.06E+06	0.00E+00	0.00E+00

FOR PATHWAY: GOAT MILK

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FOR PATHWAY: INHALATION

	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ALL AGES	1.66E+02	2.65E+02	3.29E+02	5.20E+02	8.92E+02	8.04E+04	0.00E+00	0.00E+00

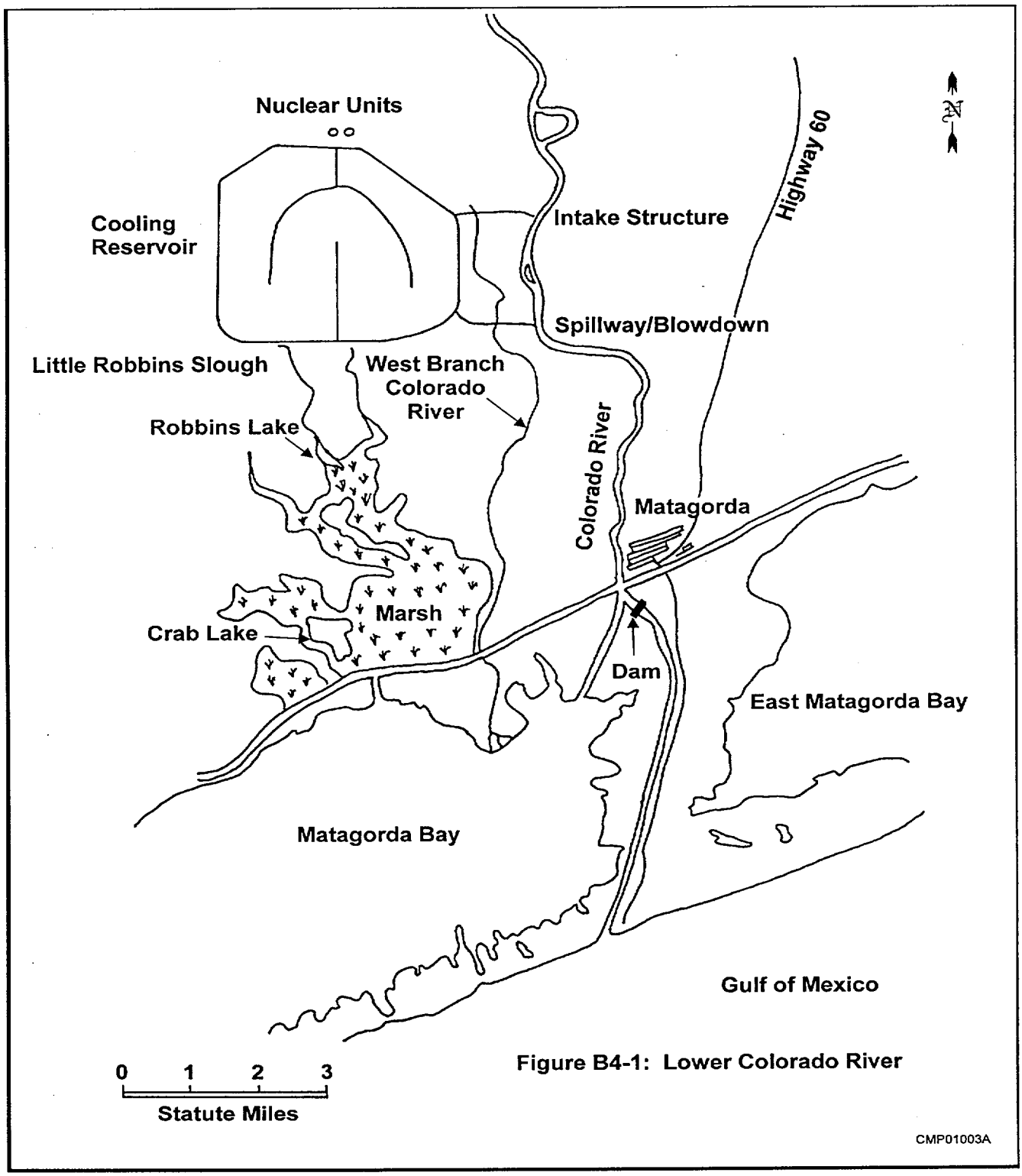

Figure B4-1: Lower Colorado River

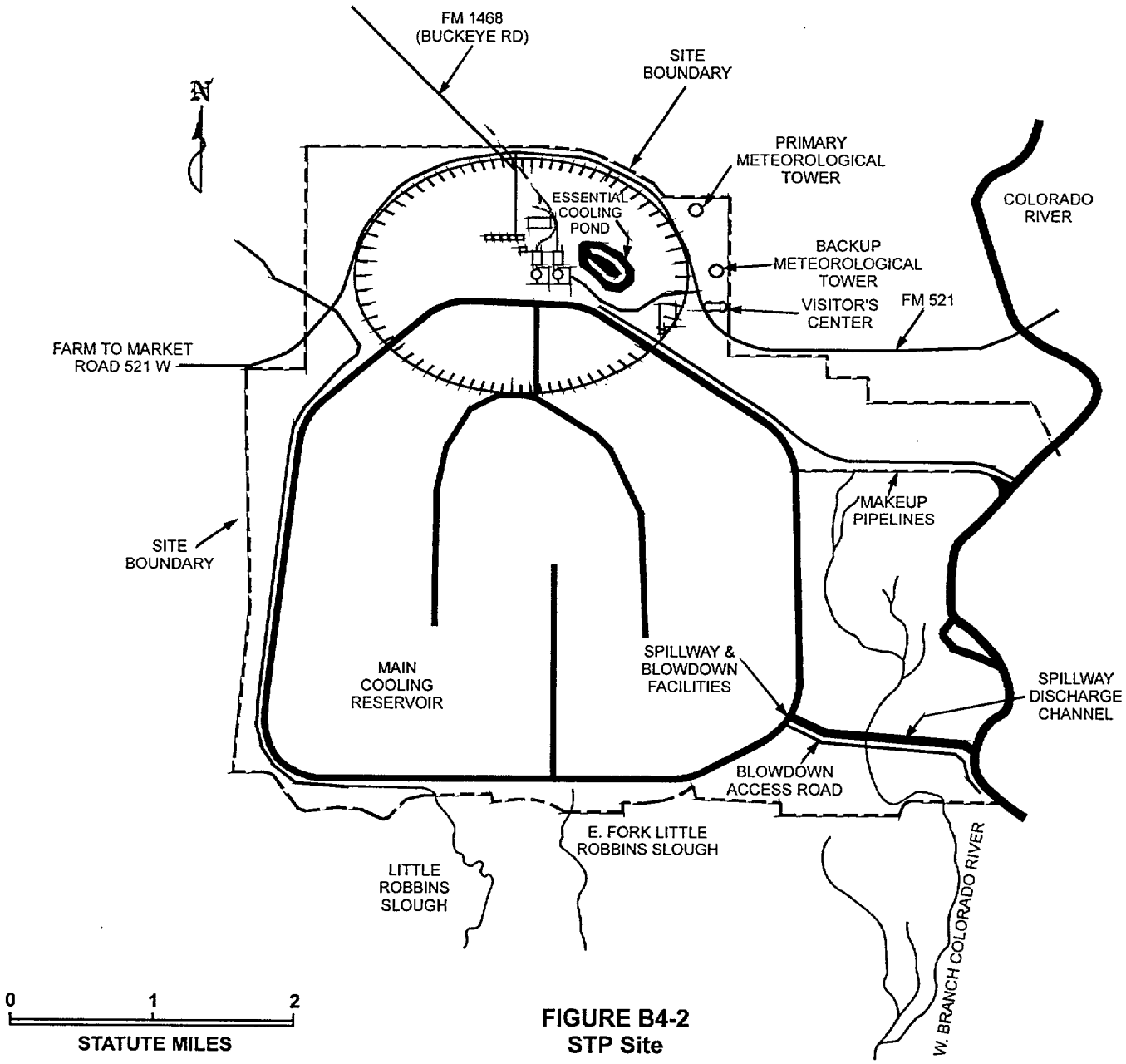

FIGURE B4-2
STP Site

5.0 Radiological Environmental Monitoring Program

The emphasis of the operational Radiological Environmental Monitoring Program is to verify source control at the plant. In meeting this objective, certain findings have been considered in formulating the operational Radiological Environmental Monitoring Program. Among these the most important in relation to critical exposure paths and population groups are the following:

> As of the most recent land use census no commercial dairy exists within ten (10) miles of the plant nor any individual cows or goats within five (5) miles whose milk is consumed by humans; however, there are ranches with beef cattle within a 10-mile radius as indicated in Table B4-10c.
>
> There are extensive commercial crops grown, mainly rice, soybeans, grain sorghum, and cotton in the region immediately surrounding the plant. The major portion of irrigation in this region is from the canal and levee systems with water controlled by the Lower Colorado River Authority in Bay City. Alternate irrigation comes from deep water wells 300 ft. or greater in depth. Although three irrigation permits have been issued by the Lower Colorado River Authority for irrigation with Colorado River water taken downstream from the plant, these permits have not been exercised due to the brackish quality of the river in this area.
>
> Local towns derive their drinking water from ground-water wells; there is no population consumption of water from the Colorado River below the plant.
>
> There is substantial commercial harvesting of shellfish in Matagorda Bay, with the potential of harvesting fin fish as well depending on state controls. The Colorado River estuary is limited to sport fishing for human consumption and commercial fishing for bait species.
>
> Prevailing winds are from the south to east-south-east.

5.1 Program Summary

The design and implementation of the Radiological Environmental Monitoring Program, related surveillance activities, sample analysis, and reporting is performed by STP. The monitoring program is a tiered system in which the level of surveillance is in part determined by effluent releases. The minimum program is outlined in the following sections and in Table B5-1.

The program is modeled after the minimum Radiological Environmental Monitoring Program described in the 1979 Nuclear Regulatory Commission Branch Technical Position. This program was originally negotiated with the Nuclear Regulatory commission and was included in the Technical Specifications for each unit at the South Texas Project. Subsequently, the Nuclear Regulatory Commission requested that the minimum program approved for the South Texas

Project be removed from the Technical Specifications and be placed in Part A of this document. With Revision 9 to the ODCM, the minimum program was removed from Part A and combined with Table B5-1 of Part B. The **bold faced type** appearing in Table B5-1 highlights the requirements of the minimum Radiological Environmental Monitoring Program acceptable to the Nuclear Regulatory Commission for the South Texas Project. Although the format is different, the content remains unchanged from the original Technical Specifications.

The results of this program are routinely reported in the Annual Radiological Environmental Operating Report as indicated in Control 6.9.1.3. In support of this report, a land use census will be conducted annually. In the event plant releases result in environmental measurements exceeding Table A5-2 values or the results of an analysis indicate unexpected concentrations of radionuclides in the environment, a more vigorous sampling program may be instituted.

In the event of an incident involving large releases of activity from STP, an intensive sampling program would be initiated. This program would include special studies as appropriate for the particular incident and might include special reporting.

The following paragraphs describe the general program instituted including the types of samples, the collection frequency, and the analysis to be accomplished on each sample type.

5.2 Sampling Program Description

5.2.1 Airborne Iodine and Particulates

Airborne iodine and particulates are sampled by continuous low volume air samplers (approximately 2.0 cfm) fitted with charcoal canisters. The air sampling network will consist of 5 stations. Three stations are located at the exclusion zone boundary, one each in the N, NNW, and NW sectors. Since all releases will be at ground level or from roof vents, the highest calculated off-site ground level concentration of airborne releases occurs at the site boundary regardless of wind direction. An air sampling system is located in the community of Bay City. A control station is located at least ten (10) miles WSW of the site in a minimal wind direction. The filters are changed weekly and analyzed.

5.2.2 Sediment Sampling

A sediment sample shall be collected semiannually at locations upstream (control) and downstream of the MCR spillway on the Colorado River. A sample will also be collected from within the Main Cooling reservoir to help identify buildup of radioactive materials from liquid effluents released to the reservoir even though these materials remain on STP property. This sample is a part of the mandatory monitoring program required by the NRC at the time STP was licensed even though it is not used to characterize off site environmental pathways.

5.2.3 Ambient Radiation Measurements

Background ionizing radiation levels are measured by a network of approximately forty TLD stations. Two dosimeters are placed at each station and are collected and analyzed quarterly. The TLD stations are located adjacent to air monitoring stations and in generally concentric rings about the plant at one and five mile ranges in sixteen sectors. The balance of the stations are placed in special interest areas and control locations ten to eighteen miles from the site.

5.2.4 Surface Water Sampling

Each unit discharges its liquid radioactive waste into the cooling reservoir. The radionuclides in the reservoir are assumed to mix uniformly and subsequent blowdown releases to the Colorado River may contain these radionuclides. The Colorado River is sampled continuously both above and below the plant discharge structure. In order to help affirm the liquid effluent pathway dose model, STP also samples the reservoir near the spillway structure. Results of these samples may be compared with off-site measurements to help assess the adequacy of dose projection models. These composite samples are analyzed for gamma isotopes monthly and for tritium quarterly.

Radionuclides may also diffuse through the bottom of the reservoir and may be discharged to collection ditches which run into Little Robbins Slough. Grab samples may be taken semiannually at locations near the site boundary where these surface flows enter off-site surface waters.

5.2.5 Ground Water Sampling

Since seepage from the bottom of the reservoir is expected to occur, some chance exists for radionuclides to enter ground water. Two aquifers underlie the site: a shallow aquifer above about 90 feet, and a deeper one below about 300 feet. Drinking water used in the area is drawn from the aquifer below 300 feet which is separated from the shallow aquifer by an impermeable strata of clay. Due to the existence of one unfilled Sondex pipe that passes from the surface through the shallow and into the deep aquifer, the possibility exists for nuclides to migrate down this Sondex structure into the drinking water. Therefore, wells on-site are sampled and analyzed for tritium and gamma emitting nuclides from both the shallow and deep aquifers.

5.2.6 Fish/Aquatic Wildlife

Radioactivity in the liquid effluent from the plant may be available to the fish of the Colorado River and Little Robbins Slough. The Colorado River is used by sports fishermen and hence, radionuclides may find their way into the human food chain. Fish and/or aquatic wildlife samples are taken twice annually downstream and at a control location beyond plant influence. Fish samples shall be taken in the main cooling reservoir as necessary to comply with STP license agreements. These samples are analyzed for gamma emitting nuclides.

5.2.7 Agricultural Products

The Lower Colorado River Authority which regulates the majority of irrigation water in the vicinity of STP indicates that these waters originate upstream from the dam on the Colorado River near Bay City. Hence, plant liquid discharges do not affect local agriculture.

The broadleaf vegetation samples are taken monthly when available. STP collects broadleaf vegetation samples near the site boundary in two of the three highest predicted X/Q sectors in place of sampling private garden plots. Milk samples may be taken depending on the presence of milk animals and the success of obtaining samples. Gamma isotopic analysis is performed on the vegetation samples and iodine analyses will be performed if any milk samples are identified and taken.

5.2.8 Domestic Meat

At least one sample of meat is taken annually from farms located within ten miles of the plant. The edible tissue is analyzed for gamma-emitting radionuclides.

5.2.9 Game

Game is obtained on site or within ten miles of the site, when available. The edible tissue is analyzed for gamma-emitting radionuclides.

5.2.10 Sewage Sludge Land Farming

In 1999 sewage sludge potentially contaminated with trace quantities of radioactive material was approved for land application on STP property in accordance with Texas Natural Resource Conservation Commission Registration No. 710645. Soil samples are taken to confirm concentrations do not exceed the limits specified in Title 25 of the Texas Administrative Code Section 289.202(ddd). However, land farming sewage sludge does not represent an effluent pathway and hence is not monitored as part of the Radiological Environmental Monitoring Program.

5.3 Sampling Frequency

The sampling frequencies given in Table B5-1 were selected to conform with the 1979 Nuclear Regulatory Commission Branch Technical Position on environmental monitoring. In some cases the sampling frequency is determined by inherent characteristics of the medium; e.g., air filters can be run only 7-10 days before excessive pressure-drop arises. The frequency terms used in Table B5-1 generally mean once during the time period specified. Hence Annually means some time during the year, not 365 days from the previous sample collection time. Likewise, Monthly means during the calendar month, not 30 days from the previous sample date. An effort is made to space the samples reasonably but sample media availability, other scheduled activities, and equipment availability largely control the precise sample dates.

5.4 Sample Station Locations

Table B5-2 lists the media codes used in Table B5-3. Table B5-3 identifies sample stations by an ID number, location vector, brief location description and media that might be collected. This list is not limiting and may be modified to satisfy requirements described in Table B5-1.

5.5 Quality Control

Control checks and tests are applied to the analytical operations by means of duplicate and/or split analyses of selected samples, and by the introduction of environmental samples with known nuclide concentrations. Calibrations are confirmed by participation in the Nuclear Energy Institute/National Institute of Standards and Technology Measurement Assurance Program (NEI/NIST MAP). Analytical procedures are similar to those reported in HASL-300 or equivalent commercial practice.

5.6 Analytical Sensitivity

The detection sensitivities of the various program elements are listed in Table A5-1. Samples are analyzed as described in the program summary.

5.7 Data Presentation

Typically, reporting units are pCi/m^3 for air and pCi/kg for liquid and solid samples. The standard deviation of the net counting rate is computed using the gross counting rate and the background rate. Suitable statistical methods are used to determine whether a count is significant as described in references 1 and 6.

5.8 Routine Reporting Requirements

Reports on radiological environmental monitoring sample analyses are submitted in accordance with the requirements of Control 6.9.1.3. These reports are summaries of the results of the environmental activities and assessments of the observed impacts of plant operation on the environment.

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

EXPOSURE: **DIRECT RADIATION**[2] 40 TOTAL SAMPLING STATIONS

Forty routine monitoring stations, either with two or more dosimeters or with one instrument for measuring and recording dose rate continuously, placed as follows:

- **An inner ring of stations, one in each meteorological sector in the general area of the SITE BOUNDARY;**
- **An outer ring of stations, one in each meteorological sector in the 6 to 8 km range from the site; and**
- **The balance of the stations to be placed in special interest areas such as population centers, nearby residences, schools, and in one or two areas to serve as control stations.**

Sample Media, Number, Approximate Location[1] and Distance of Sample Stations from Containment.	Routine Sampling Mode	Sampling and Collection Frequency	Analysis Type	Minimum Analysis Frequency
Exposure Media: TLD 16- Located in all 16 meteorological sectors, 0.2* to 4 miles. 16- Located in all 16 meteorological sectors, 2 to 7 miles. 6- Located in special interest areas (e.g. school, population centers), within 14 miles. 2- Control stations located in areas of minimal wind direction (WSW,ENE), 10-16 miles.	Continuously	**Quarterly**	**Gamma dose**	**Quarterly**

* The inner ring of stations in the southern sectors are located within 1 mile because of the main cooling reservoir.

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **AIRBORNE** 5 TOTAL SAMPLING STATIONS

Samples from five locations:

- **Three samples from close to the three SITE BOUNDARY locations in the different sectors of the highest calculated annual average ground-level D/Q;**
- **One sample from the vicinity of a community having the highest calculated annual average ground-level D/Q; and**
- **One sample from a control location, as for example 15 to 30 km distant and in a minimal wind direction.**

Sample Media, Number, Approximate Location[1], and Distance of Sample Stations from Containment.	Routine Sampling Mode	Nominal Collection Frequency	Analysis Type	Minimum Analysis Frequency
Charcoal and Particulate Filters 3- Located at the exclusion zone, N, NNW, NW Sectors, 1 mile. 1- Located in Bay City, 14 miles. 1- Control Station, located in a minimal wind direction (WSW), 10 miles.	**Continuous sampler operations**	**Weekly or more frequently if required by dust loading**	**Radioiodine Canister: I-131** **Particulate Sampler: Gross Beta activity** **Gamma-Isotopic of composite (by location)**	**Weekly** **Following filter change[3]** **Quarterly**

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **WATERBORNE** 9 TOTAL SAMPLING STATIONS

Surface[5]:

- **One sample from the Colorado River upstream of the main cooling reservoir spillway.**
- **One sample from the Colorado River downstream of the main cooling reservoir spillway.**
- **One sample from the main cooling reservoir.**

Ground:

- **Sample from the shallow aquifer.[7]**

Sample Media, Number And Approximate Location[1] of Sample Stations	Routine Sampling Mode	Nominal Collection Frequency	Analysis Type	Minimum Analysis Frequency
Surface				
1- Located in MCR at the MCR blowdown structure. 1- Located above the site on the Colorado River not influenced by plant discharge (control). 1- Located downstream from blowdown entrance into the Colorado River.	**Composite[6] sample over a 1-month period** (grab if not available)	**Monthly**	**Gamma-Isotopic[4]** **Tritium**	**Monthly** **Quarterly Composite**
Ground				
1- Located at well down gradient in the shallow aquifer.	Grab	**Quarterly**	**Gamma-Isotopic [4]& Tritium**	**Quarterly**

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **WATERBORNE** (continue)

Drinking:

- **One sample of each of one to three of the nearest water supplies that could be affected by its discharge.**
- **One sample from a site deep aquifer well.**
- **One sample from a control location.**

Sediment from Shoreline:

- **One sample from upstream and downstream of the cooling reservoir spillway.**
- **One sample from main cooling reservoir.**

Sample Media, Number And Approximate Location[1] of Sample Stations	Routine Sampling Mode	Nominal Collection Frequency	Analysis Type	Minimum Analysis Frequency
Drinking Water				
1- Located on site. *	Grab	**Monthly**	**Gross Beta & Gamma-Isotopic** [4]	**Monthly**
1- Located at a control station.				
			Tritium	**Quarterly** Composites
Sediment				
1- Located above the site on the Colorado River, not influenced by plant discharge.	Grab	**Semi-annually**	**Gamma-Isotopic**[4]	**Semiannually**
1- Located downstream from blowdown entrance into the Colorado River.				
1- Located in MCR.				

* No municipal water systems are affected by STP. This sample taken from deep aquifer supplying drinking water to STP employees while at work.

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **INGESTION** 7 TOTAL SAMPLING STATIONS

Milk:

- **Samples from milk animals in three locations within 5 km distance having the highest dose potential. If there are none from which samples can be obtained, then one sample from milk animals in each of three areas between 5 to 8 km distance when doses are projected by calculation to be grater than 1 mrem per year[8]. One sample from milk animals at a control location greater than 30 km distant in a minimal wind direction.No samples are required if there are no milk animals from which samples can be obtained within the 8 km distance.**
- **Samples of three different kinds of broadleaf vegetation grown nearest each of two different offsite locations of highest predicted annual average ground level D/Q if milk sampling is not performed.**
- **One sample each of the similar broadleaf vegetation grown 15 to 30 km distant in a minimal wind direction if milk sampling is not performed.**

Sample Media, Number And Approximate Location[1] of Sample Stations	Routine Sampling Mode	Nominal Collection Frequency[10]	Analysis Type	Minimum Analysis Frequency
Milk * Broadleaf Vegetation**	Grab	**Semi-monthly when animals are on pasture; monthly at other times.**	**Gamma-Isotopic [4] and I-131**	**Semi-monthly when animals are on pasture; monthly at other times**
2- Located at the exclusion zone, N, NW, or NNW sectors. 1- Located in a minimal wind direction.	Grab	**Monthly during growing season When available**	**Gamma-Isotopic[4] and I-131**	As collected

* Limited source of sample in vicinity of STP. (Attempts will be made to obtain samples when available.)

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

** Three different kinds of broadleaf vegetation are to be collected over the growing season, not each collection period.

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **INGESTION** (continued)

Fish and Invertebrates:

- **One sample representing each commercially and recreationally important species in vicinity of plant discharge area.**
- **One sample representing each commercially and recreationally important species found within the main cooling reservoir.**
- **One sample representing the same species in areas not influenced by plant discharge.**

Sample Media, Number And Approximate Location[1] of Sample Stations	Routine Sampling Mode	Nominal Collection Frequency[10]	Analysis Type	Minimum Analysis Frequency
Fish and Invertebrates (edible portions) 1- Representing commercially or recreational important species in vicinity of STP that maybe influenced by plant operation. 1- Same or analogous species in area not influenced by STP. 1- Same or analogous species in the MCR.	Grab	**Sample semi-annually**	**Gamma-Isotopic[4] on edible portions**	As collected

Table B5-1
MINIMUM OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
Continued

EXPOSURE: **INGESTION** (continued)

Food Products:

- **One sample of each principle class of food products from any area that is irrigated by water that receives the main cooling reservoir discharges.**

Sample Media, Number And Approximate Location[1] of Sample Stations	Routine Sampling Mode	Nominal Collection Frequency[10]	Analysis Type	Minimum Analysis Frequency
Agricultural Products * Domestic Meat	Grab	**At time of harvest[9]**	**Gamma isotopic analysis[4] in edible portion**	As collected
1- Represents domestic stock fed on crops grown exclusively within 10 miles of the plant.	Grab	Annually	Gamma-Isotopic[4]	As collected

* No sample stations have been identified in the vicinity of the site. Presently no agricultural land is irrigated by water into which liquid plant wastes will be discharged. Agricultural products will be considered if these conditions change.

Table B5-1 Notations

(1) **Specific parameters of distance and direction sector from the centerline of one reactor, and additional description where pertinent, shall be provided for each and every sample location in Table B5-3 in a table and figure(s) in this manual. Refer to NUREG-0133, "Preparation of Radiological Effluent Technical Specification For Nuclear Power Plants," October 1978, and Radiological Assessment Branch Technical Position, Revision 1, November 1979. Deviations are permitted from the required sampling schedule if specimens are unobtainable due to circumstances such as hazardous conditions, seasonal unavailability, and malfunction of automatic sampling equipment. If specimens are unobtainable due to sampling equipment malfunction, effort shall be made to complete corrective action prior to the end of the next sampling period. All deviations from the sampling schedule shall be documented in the Annual Radiological Environmental Operating Report pursuant to Control 6.9.1.3. It is recognized that, at times, it may not be possible or practicable to continue to obtain samples of the media of choice at the most desired location or time. In these instances, suitable alternative media and locations may be chosen for the particular pathway in question and appropriate substitutions made within 30 days in the Radiological Environmental Monitoring Program given in this manual. Pursuant to Technical Specification 6.14 [ITS 5.5.1], submit in the next Radioactive Effluent Release Report documentation for a change in this manual including a revised figure(s) and table for this manual reflecting the new location(s) with supporting information identifying the cause of the unavailability of samples for that pathway and justifying the selection of the new location(s) for obtaining samples.**

(2) **One or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. The 40 stations is not an absolute number. The number of direct monitoring stations may be reduced according to geographical limitations. TLD's may be located at nonprescribed distances from the plant due to access limitations.**

(3) **Airborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than 10 times the yearly mean of control samples, gamma isotopic analysis shall be performed on the individual samples.**

(4) **Gamma isotopic analysis means the identification and quantification of gamma-emitting radionuclides that may be attributable to the effluents from the facility.**

(5) **The "upstream sample" shall be taken at a distance beyond significant influence of the discharge. The "downstream" sample shall be taken in an area beyond but near the mixing zone. "Upstream" samples in an estuary must be taken far enough upstream to be beyond the plant influence. Salt water shall be sampled only when the receiving water is utilized for recreational activities.**

(6) **A composite sample is one in which the quantity (aliquot) of liquid sampled is proportional to the quantity of flowing liquid and in which the method of sampling employed results in a specimen that is representative of the liquid flow. In this program, composite sample aliquots shall be collected at time intervals that are very short (e.g., hourly) relative to the compositing period (e.g., monthly) in order to assure obtaining a representative sample.**

(7) **Groundwater samples shall be taken when this source is tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination.**

(8) **The dose shall be calculated for the maximum organ and age group, using the methodology and parameters in this manual.**

(9) **If harvest occurs more than once a year, sampling shall be performed during each discrete harvest. If harvest occurs continually, sampling shall be monthly. Attention shall be paid to including samples of tuberous and root food products.***

(10) Collection frequency may vary to accommodate sample media availability, equipment availability, and/or weather conditions.

* The bold type of Table B5-1 reflects the minimum requirements for the Radiological Environmental Monitoring Program outlined in the 1979 NRC Branch Technical Position Paper as modified for inclusion in the original South Texas Project Technical Specifications.

Table B5-2

SAMPLE MEDIA CODES			
AI	AIRBORNE RADIOIODINE	L5	CABBAGE
AP	AIRBORNE PARTICULATE	L6	COLLARD GREENS
B1	RESIDENT DABBLER DUCK	M1	BEEF MEAT
B2	RESIDENT DIVER DUCK	M2	POULTRY MEAT
B3	MIGRATORY DABBLER DUCK	M3	WILD SWINE
B4	MIGRATORY DIVER DUCK	M4	DOMESTIC SWINE
B5	GOOSE	M5	EGGS
B6	DOVE	M6	GAME DEER
B7	QUAIL	M7	ALLIGATOR
B8	PIGEON	M8	RABBIT
CC	CRUSTACEAN CRAB	OY	OYSTER
CS	CRUSTACEAN SHRIMP	SO	SOIL
DR	DIRECT RADIATION	S1	SEDIMENT - SHORELINE
F1	FISH - PISCIVOROUS	S2	SEDIMENT - BOTTOM
F2	FISH - CRUSTACEAN & INSECT FEEDERS	VB	ANY COMBINATION OF L* SAMPLES
F3	FISH - PLANTIVORES & DETRITUS FEEDERS	VP	PASTURE GRASS
L1	BANANA LEAVES	WD	DRINKING WATER
L2	CANA LEAVES	WG	GROUND WATER
L4	TURNIP GREENS	WS	SURFACE WATER
		WW	(relief) WELL WATER

Table B5-3: Sample Station Locations

SAMPLE SUBMISSION CODE INFORMATION LIST			
MEDIA CODE	**STATION CODE**	**VECTOR** (Approximate)	**LOCATION DESCRIPTION**
DR AI AP VB VP SO	001	1 mile N	FM 521
DR	002	1 mile NNE	FM 521
DR	003	1 mile NE	FM 521
DR	004	1 mile ENE	FM 521
DR	005	1 mile E	STP Visitor Center on FM 521
DR AI AP SO	006	3.5 miles ESE	Site near reservoir makeup pumping facility
DR	007	3.5 miles SE	MCR Dike
DR	008	0.25 mile SSE	MCR Dike
DR	009	0.25 mile S	MCR Dike
DR	010	0.25 mile SSW	MCR Dike
DR	011	0.5 mile SW	MCR Dike
DR	012	1.5 mile WSW	MCR Dike
DR	013	1.5 mile W	FM 521
DR	014	1.5 mile WNW	FM 521
DR AI AP VB SO VP	015	1 mile NW	FM 521
DR AI AP VB SO VP	016	1 mile NNW	FM 521
DR	**017**	6.5 miles N	Buckeye - FM 1468
DR AI AP SO	**018**	5.5 miles NNE	Celanese Plant - FM 3057
DR	**019**	5.5 miles NE	FM 2668

♦ This station may be used to obtain the required aquatic samples in the vicinity of STP that may be influenced by plant operations.

* Control Station

MCR - STP Main Cooling Reservoir

Media codes typed in bold satisfy collection requirement described in Table B5-1.

Station codes printed in bold identify offsite locations.

Table B5-3: Sample Station Locations
Cont'd

SAMPLE SUBMISSION CODE INFORMATION LIST			
MEDIA CODE	**STATION CODE**	**VECTOR** (Approximate)	**LOCATION DESCRIPTION**
DR	**020**	5 miles ENE	FM 2668 & FM 2078
DR	**021**	5 miles E	FM 521& FM 2668
DR	**022**	7 miles E	Lyondell Chemical Plant
DR	***023**	16 miles ENE	Intersection of FM 521 and FM 2540
DR	024	4 miles SSE	MCR Dike
DR	025	4 miles S	MCR Dike
DR	026	4 miles SSW	MCR Dike
DR	027	2.5 miles SW	MCR Dike
DR	**028**	5 miles WSW	FM 1095 & Ellis Road
DR SO	**029**	4.5 miles W	FM 1095
DR	**030**	6 miles WNW	Tres Palacios Oaks, FM 2853
DR	**031**	5.5 miles NW	Wilson Creek Road
DR	**032**	3.5 miles NNW	FM 1468
DR AI AP SO	**033**	14 miles NNE	Microwave Tower at end of Kilowatt road in Bay City
DR	**034**	7.5 miles ENE	Wadsworth Water Supply Pump Station
DR AI AP SO	**035**	8.5 miles SSE	Matagorda
DR	**036**	9 miles WSW	College Port
DR AI AP VB VP SO	***037**	10 miles WSW	Palacios CP&L Substation
DR	**038**	10.5 miles NW	CP&L Substation on TX 71 near Blessing

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* Control Station
MCR - STP Main Cooling Reservoir
Media codes typed in bold satisfy collection requirement described in Table B5-1.
Station codes printed in bold identify offsite locations.

Table B5-3: Sample Station Locations
Cont'd

SAMPLE SUBMISSION CODE INFORMATION LIST			
MEDIA CODE	**STATION CODE**	**VECTOR** (Approximate)	**LOCATION DESCRIPTION**
DR AI AP SO	**039**	9 miles NW	TX 35 under High Voltage Power lines near Tidehaven High School
DR	**040**	4.5 miles SW	Citrus Grove
DR	041	2.0 miles ESE	MCR Dike
DR	**042**	8.5 miles NW	FM 459 at Tidehaven Intermediate School
DR	**043**	4.5 miles SE	Site boundary at blowdown outlet
WS	209	2 miles ESE	Kelly Lake
WD	210	On Site	Approved drinking water supply from STP
WS S1	211♦	3.5 miles S	Site, E. Branch Little Robbins Slough
WS S1	212♦	4 miles S	Little Robbins Slough
WS S1	213	4 miles SE	W. Branch Colorado River
F (1, 2, or 3) CC	214	2.5 miles SE	MCR at Makeup Water Discharge
S2	215	0.5 mile SW	MCR at Circulating Water Discharge
WS S2	216	3.5 miles SSE	MCR at blowdown structure
F (1, 2, or 3) CC CS OY	**222♦**	>10 miles	West Matagorda Bay
WS S(1 or 2)	**227**	5-6 miles SE	West bank of Colorado River downstream of STP across from channel marker #22
WD	***228**	14 miles NNE	Le Tulle Park Public water supply

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* Control Station

MCR - STP Main Cooling Reservoir

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Station codes printed in bold identify offsite locations.

Table B5-3: Sample Station Locations
Cont'd

SAMPLE SUBMISSION CODE INFORMATION LIST			
MEDIA CODE	**STATION CODE**	**VECTOR** (Approximate)	**LOCATION DESCRIPTION**
WS S1	229	2-3 miles ESE	Drainage ditch north of reservoir that empties into Colorado upstream from makeup pumping facility
S(1 or 2)	**230♦**	3.5 miles ESE	Colorado River at point where drainage ditch (#229) empties into it
S(1 or 2) WS	**233♦**	4.5 miles SE	Colorado River where MCR blowdown discharge channel empties into it.
WG	235	3.8 miles S	Well B-3 directly south from MCR
B8	236	N/A	STP Protected Area
WS	237	3.7 miles SSE	Blowdown discharge channel from MCR
S(1 or 2) WS	***242**	>10 miles N	Colorado River where it intersects Highway 35
WS	***243**	>10 miles N	Colorado River upstream of Bay City Dam at the LCRA pumping station
WS	247	<1 mile E	Essential Cooling Pond
F(1,2, or 3)	***249**	N/A	Control sample purchased from a local retailer
SO	250	0.75 miles NW	Sewage sludge land farming area
WG	251	4.0 miles SSE	Test Well B-4, upper auquirer
F(1, 2, or 3) CC S2	300	S	STP Main Cooling Reservoir
WW	701	4 miles S	MCR Relief Well #440

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* Control Station

MCR - STP Main Cooling Reservoir

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Station codes printed in bold identify offsite locations.

Table B5-3: Sample Station Locations
Cont'd

SAMPLE SUBMISSION CODE INFORMATION LIST			
MEDIA CODE	**STATION CODE**	**VECTOR** (Approximate)	**LOCATION DESCRIPTION**
WS	**Q01**	N/A	Quarterly composite of station #227 and/or alternate #233 (1)
WS	**Q02**	N/A	Quarterly composite of station #243 and/or alternate #242 (1)

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* Control Station

MCR - STP Main Cooling Reservoir

Media codes typed in bold satisfy collection requirement described in Table B5-1.

Station codes printed in bold identify offsite locations.