

C A P 8 8 - P C

Version 4.1

Clean Air Act Assessment Package - 1988

S Y N O P S I S R E P O R T

Non-Radon Individual Assessment
Tue Jul 20 11:04:34 2021

Facility: MVF
Address: Mayfield
City: Idaho
State: ID Zip:

Source Category:
Source Type: Stack
Emission Year: 2021
DOSE Age Group: Adult

Comments:

Effective Dose Equivalent
(mrem)

1.05E-03

At This Location: 50 Meters Southeast
Dataset Name: MVF-th-232 w pro
Dataset Date: Jul 20, 2021 11:04 AM
Wind File: C:\Users\tjenkins\Documents\CAP88\Wind Files\24131.WND

MAXIMALLY EXPOSED INDIVIDUAL

Location Of The Individual: 50 Meters Southeast
Lifetime Fatal Cancer Risk: 7.23E-10

ORGAN DOSE EQUIVALENT SUMMARY
(RN-222 Working Level Calculations Excluded)

Organ	Dose Equivalent (mrem)
Adrenals	2.21E-04
UB_Wall	2.44E-04
Bone_Sur	7.77E-03
Brain	2.32E-04
Breasts	2.52E-04
St_Wall	2.35E-04
SI_Wall	2.33E-04
ULI_Wall	2.41E-04
LLI_Wall	2.62E-04
Kidneys	3.46E-04
Liver	4.26E-04
Muscle	2.60E-04
Ovaries	2.67E-04
Pancreas	2.23E-04
R_Marrow	7.12E-04
Skin	1.46E-03
Spleen	2.36E-04
Testes	3.00E-04
Thymus	2.33E-04
Thyroid	2.41E-04
GB_Wall	2.23E-04
Ht_Wall	2.32E-04
Uterus	2.31E-04
ET_Reg	1.69E-03
Lung	5.59E-03
Effectiv	1.05E-03

RADIONUCLIDE EMISSIONS DURING THE YEAR 2021

Source
#1 TOTAL

Nuclide	Type	Size	Ci/y	Ci/y
Th-232	S	1.000	1.0E-06	1.0E-06
Ra-228	M	1.000	1.0E-06	1.0E-06
Ac-228	M	1.000	1.0E-06	1.0E-06
Th-228	S	1.000	1.0E-06	1.0E-06
Ra-224	M	1.000	1.0E-06	1.0E-06
Rn-220	B	0.000	1.0E-06	1.0E-06
Po-216	B	0.000	1.0E-06	1.0E-06
Pb-212	M	1.000	1.0E-06	1.0E-06
Bi-212	M	1.000	1.0E-06	1.0E-06
Po-212	B	0.000	1.0E-06	1.0E-06
Tl-208	B	0.000	1.0E-06	1.0E-06

SITE INFORMATION

Temperature: 20.000 degrees C
 Precipitation: 33.000 cm/y
 Humidity: 8.000 g/cu m
 Mixing Height: 1000.0 m

SOURCE INFORMATION

Source Number: 1

Stack Height (m): 10.00
Diameter (m): 1.00

Plume Rise							
Pasquill Cat:	A	B	C	D	E	F	G
Fixed (m):	None	None	None	None	None	None	None

ADJUSTED AGRICULTURAL DATA

	Vegetable	Milk	Meat
Fraction Home Produced:	0.7000	0.4000	0.4400
Fraction From Assessment Area:	0.3000	0.6000	0.5600
Fraction Imported:	0.0000	0.0000	0.0000

Food Arrays were not generated for this run.
Default Values used.

DISTANCES (M) USED FOR MAXIMUM INDIVIDUAL ASSESSMENT