WASTE STREAM	2N04	LLW from PCM Operations
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SITE	LLWR (near Drigg)		
SITE OWNER	Nuclear Decommissioning Authority		
WASTE CUSTODIAN	LLWR SLC Limited		
WASTE TYPE	LLW		
Is the waste subject to Scottish Policy:	No		
WASTE VOLUMES		Reported	
Stocks:	At 1.4.2022	97.5 m ³	
Future arisings -	1.4.2022 - 31.3.2023	0 m³	
Total future arisings:		0 m ³	
Total waste volume:		97.5 m ³	
Comment on volumes:	No future arisings as all waste has be	en generated and is awaiting	consignment.
Uncertainty factors on	Stock (upper): x 1.3	Arisings (upper)	х
volumes:	Stock (lower): x 0.7	Arisings (lower)	Х
WASTE SOURCE	The waste primarily comprises of soft (contaminated building materials) ger in the PCM facilities on the LLWR site	erated during decontaminatio	

PHYSICAL CHARACTERISTICS

General description:	Waste that has been generated and deemed not suitable for any of the Diversion Services i.e metals, wood, plastics, motors, pumps, cables, rubble, dust. Only changes to the waste are size reduction and painting of internal metallic waste surfaces (reactive metals).
Physical components (%wt):	Metals (24.79%), Organics such as paper, wood, plastics, bitumen (16.93%), Others such as cementitous material, rubble, glass (58.28%).
Sealed sources:	The waste does not contain sealed sources.
Bulk density (t/m ³):	~0.6
Comment on density:	Bulk density is based on an estimate of the total waste mass divided by the total waste volume.

CHEMICAL COMPOSITION

General description and components (%wt):	Metals (24.79%), Organics such as paper, wood, plastics, bitumen (16.93%), Others such as cementitous material, rubble, glass (58.28%).
Chemical state:	Alkali
Chemical form of radionuclides:	 H-3: Trace quantities could be present as organically bound or free tritium. C-14: Not expected to be present. Cl-36: Not expected to be present. Se-79: Not expected to be present. Tc-99: Not expected to be present. I-129: Not expected to be present. Ra: Could be present as metals, oxides or other forms. Th: Could be present as metals, oxides or other forms. U: Oxides, fluorides. Np: Could be present as metals, oxides or other forms. Pu: Nitrate, sulphide, fluoride or mixed oxides.
Metals and alloys (%wt):	Larger items such as fork lift trucks and drum handling equipment will be size reduced as part of the waste export process. Items will vary in size and size reduction requirements will be influenced by the waste route. Ventilation ductwork comprising of mild steel, galvenised (zinc) steel (~6%wt, ~3mm thickness).

WASTE STREAM

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LLW from PCM Operations

Stainless steel. -0.78 Grades not known. Other ferrous metals. -23.9 Grades not known. Iron. -0.01 Grades not known. Aluminium. -0.01 Grades not known. Beryllium. -0.09 Predominantly in electrical equipment. Cobatt. -0.09 Predominantly in electrical equipment. Lead TR Trace could be present in redundant equipment. Magnox/Magnesium. TR Trace could be present in redundant equipment. Uranium. Zinc. TR Trace could be present in redundant equipment. Zinc. TR Trace could be present in redundant equipment. Stainlost. Organics (%wt): 16.93% wt organics - breakdown provided below. % of total C14 activity Organics (%wt): 16.93% wt organics - breakdown provided below. % of total C14 activity Yood -2.9 Paper, cotton. -2.6 Wood -0.35 Including PVC. Total cellulosics. -0.65 Condensation polymers. -0.06 Cordensation polymers. -0.032 Halogenated plastics. -0.57 Various including polypropylene and polyethene. Non-halogenate				
Other ferrous metals. -23.9 Grades not known. Iton		(%wt)	Type(s) / Grade(s) with proportions	% of total C14 activity
Iron	Stainless steel	~0.78	Grades not known.	
Aluminium -0.01 Grades net known, Berytlium Cobat -0.09 Pradominantly in electrical equipment. Copper -0.09 Pradominantly in electrical equipment. Lead TR Trace could be present in redundant equipment. Magnox/Magnesium - - Nickel TR Trace could be present in redundant equipment. Uranium - - Uranium - - Zinc TR Trace could be present in redundant equipment. Zircaloy/Zirconium - Other metals - Organics (%wt): 16.93%wt organics - breakdown provided below. (%wt) Type(s) and comment % of total C14 activity Total cellulosics -2.9 Paper, cotton -2.6 Wood -0.35 Halogenated plastics -6.5 Condensation polymers -0.06 Ofters -0.57 Various including polypropylene and polyethene. -0.32 Halogenated rubber -0.32 Halogenated rubber -6.5 Oli or grease -6.5	Other ferrous metals	~23.9	Grades not known.	
Beryllium Cobalt Copper -0.09 Predominantly in electrical equipment. Lead TR Trace could be present in redundant equipment. Magnox/Magnesium TR Trace could be present in redundant equipment. Nickel TR Trace could be present in redundant equipment. Uranium Uranium Trace could be present in redundant equipment. Zinc TR Trace could be present in redundant equipment. Zircaloy/Zirconium - - Other metals - - Organics (%wt): 16.93%wt organics - breakdown provided below. % of total C14 activity Total cellulosics -2.9 - Paper, cotton -2.6 wood Wood -0.35 Including PVC. Total non-halogenated plastics -0.65 Condensation polymers Organic ion exchange materials NE - Total rubber -0.32 Pessimistically assumed to be halogenated. Non-halogenated rubber -6.5 Oli or grease Fuel -6.5 Oli or grease Fuel -6.5 Oli or grease	Iron			
Cobalt -0.09 Predominantly in electrical equipment. Lead TR Trace could be present in redundant equipment. Magnox/Magnesium TR Trace could be present in redundant equipment. Nickel TR Trace could be present in redundant equipment. Uranium Uranium Uranium Zinc TR Trace could be present in redundant equipment. Zircaloy/Zirconium - Other metals Organics (%wt): 18.93%wt organics - breakdown provided below. % of total C14 activity Total cellulosics -2.9 Paper, cotton -2.6 Wood -0.35 Including PVC. Total non-halogenated plastics -0.65 Condensation polymers -0.08 Others -0.32 Others -0.32 Pessimistically assumed to be halogenated. Non-halogenated rubber -0.32 Pessimistically assumed to be halogenated. Non-halogenated rubber -6.5 Oli or grease -6.5 Oli or grease -6.5 Oli or grease -6.5 Fuel -6.5 Oli or grease -6.5 Di or grease -6.5 -6.5	Aluminium	~0.01	Grades not known.	
Copper	Beryllium			
equipment. equipment. equipment. race could be present in redundant equipment. Magnox/Magnesium Nickel	Cobalt			
equipment. Magnox/Magnesium Nickel	Copper	~0.09		
Nickel TR Trace could be present in redundant equipment. Titanium Trace could be present in redundant equipment. Zinc TR Trace could be present in redundant equipment. Zinc TR Trace could be present in redundant equipment. Zinc TR Trace could be present in redundant equipment. Zircaloy/Zirconium - Organics (%wt): 16.93% wt organics - breakdown provided below. (%wt) Type(s) and comment % of total C14 activity Total cellulosics -2.9 Paper, cotton -2.6 Wood -0.35 Halogenated plastics -6.5 Condensation polymers -0.65 Condensation polymers -0.67 Various including polypropylene and polyethene. -0.32 Organic ion exchange materials NE Total rubber -0.32 Halogenated rubber -0.32 Halogenated rubber -6.5 Oil or grease -6.5 Oil or grease -6.5 Fuel -6.5 Others -6.5 Others -6.5	Lead	. TR		
equipment. Titanium Uranium Zinc	Magnox/Magnesium			
Uranium. TR Trace could be present in redundant equipment. Zircaloy/Zirconium. - Other metals. - Organics (%wt): 16.93%wt organics - breakdown provided below. (%wt) Type(s) and comment % of total C14 activity Total cellulosics. -2.9 Paper, cotton. -2.6 Wood. -0.35 Halogenated plastics. -6.5 Condensation polymers. -0.065 Condensation polymers. -0.057 Various including polypropylene and polyethene. -0.32 Others. -0.32 Halogenated rubber. -0.32 Paper total rubber. -0.32 Pessimistically assumed to be halogenated. Non-halogenated rubber. -6.5 Oil or grease -6.5 Oil or grease -6.5 Fuel. -6.5 Asphalt/Tarmac (cont coal tar) Asphalt/Tarmac (no coal tar) Bitumen. -6.5 Others. -6.5	Nickel	TR		
Zinc	Titanium			
equipment. Zircaloy/Zirconium	Uranium			
Other metals	Zinc	TR		
Organics (%wt): 16.93%wt organics - breakdown provided below. (%wt) Type(s) and comment % of total C14 activity Total cellulosics	Zircaloy/Zirconium			
(%wt)Type(s) and comment% of total C14 activityTotal cellulosics-2.9Paper, cotton-2.6Wood-0.35Halogenated plastics-6.5Including PVC.Total non-halogenated plastics-0.65Condensation polymers-0.08Others-0.57Various including polypropylene and polyethene.Organic ion exchange materialsNETotal rubber-0.32Halogenated rubber-0.32Halogenated rubber-6.5Oil or grease-6.5Oil or grease-6.5Bitumen-6.5Others-6.5Others-6.5	Other metals	~		
Total cellulosics	Organics (%wt): 16.93%wt organics	- breakdo	wn provided below.	
Total cellulosics-2.9Paper, cotton-2.6Wood-0.35Halogenated plastics-6.5Including PVC.Total non-halogenated plastics-0.65Condensation polymers-0.08Others-0.57Various including polypropylene and polyethene.Organic ion exchange materialsNETotal rubber-0.32Halogenated rubber-0.32Halogenated rubber-6.5Oil or grease-6.5Oil or grease-6.5FuelAsphalt/Tarmac (no coal tar)Bitumen-6.5Others-6.5Others-6.5		(%wt)	Type(s) and comment	% of total C14
Wood0.35Halogenated plastics-6.5Including PVC.Total non-halogenated plastics-0.65Condensation polymers-0.08Others-0.57Various including polypropylene and polyethene.Organic ion exchange materialsNETotal rubber-0.32Halogenated rubber-0.32Halogenated rubber-0.32Halogenated rubber-6.5Oil or grease-6.5Fuel6.5Bitumen-6.5Others-6.5Others-6.5	Total cellulosics	~2.9		activity
Halogenated plastics6.5Including PVC.Total non-halogenated plastics-0.65Condensation polymers-0.08Others-0.57Various including polypropylene and polyethene.Organic ion exchange materialsNETotal rubber-0.32Halogenated rubber-0.32Halogenated rubber-6.5Oil or grease-6.5Fuel-6.5Asphalt/Tarmac (no coal tar)-6.5Bitumen-6.5Others-6.5	Paper, cotton	~2.6		
Total non-halogenated plastics~0.65Condensation polymers~0.08Others~0.57Various including polypropylene and polyethene.Organic ion exchange materialsNETotal rubber~0.32Halogenated rubber~0.32Halogenated rubber~0.32Hydrocarbons~6.5Oil or grease~6.5FuelAsphalt/Tarmac (cont.coal tar)Asphalt/Tarmac (no coal tar)~6.5Bitumen~6.5	Wood	~0.35		
Condensation polymers.~0.08Others.~0.57Various including polypropylene and polyethene.Organic ion exchange materials.NETotal rubber.~0.32Halogenated rubber .~0.32Pessimistically assumed to be halogenated.Non-halogenated rubber.~6.5Oil or grease .~6.5Fuel.Asphalt/Tarmac (cont.coal tar)Asphalt/Tarmac (no coal tar).~6.5Bitumen.~6.5Others.~6.5	Halogenated plastics	~6.5	Including PVC.	
Others ~0.57 Various including polypropylene and polyethene. Organic ion exchange materials NE Total rubber ~0.32 Halogenated rubber ~0.32 Pessimistically assumed to be halogenated. Non-halogenated rubber Hydrocarbons Fuel Fuel Asphalt/Tarmac (cont.coal tar) Bitumen ~6.5 Others	Total non-halogenated plastics	~0.65		
Organic ion exchange materials NE Total rubber ~0.32 Halogenated rubber ~0.32 Non-halogenated rubber ~6.5 Oil or grease ~6.5 Sil or grease ~6.5 Bitumen ~6.5 Others ~6.5	Condensation polymers	~0.08		
Total rubber~0.32Halogenated rubber~0.32Non-halogenated rubberPessimistically assumed to be halogenated.Hydrocarbons~6.5Oil or grease~6.5FuelAsphalt/Tarmac (cont.coal tar)Asphalt/Tarmac (no coal tar)~6.5Bitumen~6.5Others~6.5	Others	~0.57		
Halogenated rubber~0.32Pessimistically assumed to be halogenated.Non-halogenated rubber~6.5Hydrocarbons~6.5Oil or grease~6.5Fuel~Asphalt/Tarmac (cont.coal tar)~Asphalt/Tarmac (no coal tar)~Bitumen~~~Others~	Organic ion exchange materials	NE		
Non-halogenated rubber Hydrocarbons ~6.5 Oil or grease Fuel Asphalt/Tarmac (cont.coal tar) Asphalt/Tarmac (no coal tar) Bitumen	Total rubber	~0.32		
Hydrocarbons	Halogenated rubber	~0.32		
Oil or grease Fuel. Fuel. Asphalt/Tarmac (cont.coal tar) Asphalt/Tarmac (no coal tar) Asphalt/Tarmac (no coal tar) Bitumen. ~6.5 Others.	Non-halogenated rubber			
Fuel Asphalt/Tarmac (cont.coal tar) Asphalt/Tarmac (no coal tar) Bitumen	Hydrocarbons	~6.5		
Asphalt/Tarmac (cont.coal tar) Asphalt/Tarmac (no coal tar) Bitumen	Oil or grease			
Asphalt/Tarmac (no coal tar) Bitumen	Fuel			
Bitumen ~6.5 Others	Asphalt/Tarmac (cont.coal tar)			
Bitumen ~6.5 Others				
	Bitumen	~6.5		
Other organics	Others			
	Other organics			

Other materials (%wt):

58.28%wt - breakdown provided below

WASTE STREAM 2N04 LLW from PCM Operations

	(%wt)	Type(s) and comment	% of total C14 activity
Inorganic ion exchange materials	~0.08		
Inorganic sludges and flocs	0		
Soil	0		
Brick/Stone/Rubble	~0.04		
Cementitious material	~58.1	Concrete.	
Sand			
Glass/Ceramics	~0.09	Glass and fibreglass.	
Graphite			
Desiccants/Catalysts	0		
Asbestos			
Non/low friable			
Moderately friable			
Highly friable			
Free aqueous liquids		Only for onsite discharge.	
Free non-aqueous liquids			
Powder/Ash	NE	Dust waste may be divertef rom the PCM route.	

Inorganic anions (%wt):

Not expected to be added - only physical processes are being applied for decontamination.

Type(s) and comment

(%wt)

	-
Fluoride	NE
Chloride	NE
lodide	NE
Cyanide	NE
Carbonate	NE
Nitrate	NE
Nitrite	NE
Phosphate	NE
Sulphate	NE
Sulphide	NE

Materials of interest for waste acceptance criteria:

Battery acid, brake & hydraulic fluids from redundant Fork Lift Trucks may be contaminated, but should be suitable for incineration. The scabbled concrete will be in a powder form. Hollow bodies are present, e.g. pumps and hydraulic fluid chambers.

Type(s) and comment

	(%wt)
Combustible metals	NE
Low flash point liquids	NE
Explosive materials	NE
Phosphorus	NE
Hydrides	NE
Biological etc. materials	NE
Biodegradable materials	Р
Putrescible wastes	NE

2022 Inventory

WASTE STREAM 2N04 LLW from PCM Operations

Non-putrescible wastes	Р	Paper, wood.
Corrosive materials	NE	
Pyrophoric materials	NE	
Generating toxic gases	NE	
Reacting with water	NE	
Higher activity particles	NE	Possible, but unlikely due to ILW/LLW segregation.
Soluble solids as bulk chemical compounds	NE	
Hazardous substances / Not expected non hazardous pollutants:		
	(%wt)	Type(s) and comment
Acrylamide	NE	
Benzene	NE	
Chlorinated solvents	NE	
Formaldehyde	NE	
Organometallics	NE	
Phenol	NE	
Styrene	NE	
Tri-butyl phosphate	NE	
Other organophosphates	NE	
Vinyl chloride	NE	
Arsenic	NE	
Barium	NE	
Boron	NE	
Boron (in Boral)	NE	
Boron (non-Boral)	NE	
Cadmium	NE	
Caesium	NE	
Selenium	NE	
Chromium	Р	Could be present in stainless steel alloy.
Molybdenum	Р	Could be present in stainless steel alloy.
Thallium	NE	
Tin	NE	
Vanadium	NE	
Mercury compounds	NE	
Others	NE	
Electronic Electrical Equipment (EEE	.)	
EEE Type 1	Ρ	~415 units (cameras, computer equipment etc.)
EEE Type 2	Ρ	~50 units (transformer components)
EEE Type 3	Ρ	~47 electric drill components
EEE Type 4	0	
EEE Type 5	0	

2022 Inventory

Complexing agents (%wt): No

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	(%wt)	Type(s) and comment
EDTA	0	
DPTA	0	
NTA	0	
Polycarboxylic acids	0	Not estimated.
Other organic complexants	0	Not estimated.
Total complexing agents	0	

Potential for the waste to contain discrete items:

Yes. Yes the waste will very likely contain discrete items including pieces of redundant equipment remaining after size reduction and waste segregation - there are not expected to be any discrete items that challenge the vault disposal WAC.

TREATMENT, PACKAGING AND DISPOSAL

Planned on-site / off-site treatment(s):	Treatment	On-si Off s		Stream volume %
	Low force compaction			
	Supercompaction (HFC)			
	Incineration			
	Solidification			
	Decontamination			
	Metal treatment			
	Size reduction			
	Decay storage			
	Recyling / reuse			
	Other / various	On-	site	100.0
	None			
Comment on planned treatments:	Consigned to on-site Vault for disposal.		I	
Disposal Routes:	Disposal Route		Stream volume %	
	Expected to be consigned to the LLW Repository		100.0	~0.60
	Expected to be consigned to a Landfill Facility			

Expected to be consigned to an On-Site Disposal Facility Expected to be consigned to an Incineration Facility Expected to be consigned to a Metal Treatment Facility

Expected to be consigned as Out of Scope

Expected to be recycled / reused Disposal route not known

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Classification codes for waste expected to be consigned to a landfill facility:

Upcoming (2022/23-2024/25) Waste Routing (if expected to change from above):

Disposal Route	Stream volume %			
	2022/23	2023/24	2024/25	
Expected to be consigned to the LLW Repository Expected to be consigned to a Landfill Facility Expected to be consigned to an On-Site Disposal Facility Expected to be consigned to an Incineration Facility Expected to be consigned to a Metal Treatment Facility Expected to be consigned as Out of Scope Expected to be recycled / reused Disposal route not known				

Opportunities for alternative disposal routing: Yes

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Baseline Management Route	Opportunity Management Route	Stream volume (%)	Estimated Date that Opportunity will be realised	Opportunity Confidence	Comment
Disposal at LLWR	Incineration	~5.0	2022	High	ion exchange resins - consigned for incineration.

Waste Packaging for Disposal:

Container	Stream volume %	Waste loading m ³	Number of packages	
 1/3 Height IP-1 ISO 2/3 Height IP-2 ISO 1/2 Height WAMAC IP-2 ISO 1/2 Height IP-2 Disposal/Re-usable ISO 2m box (no shielding) 4m box (no shielding) Other 	100.0	19.5	5	

Other information:

Waste Planned for Disposal at the LLW Repository:

Container voidage:	Voidage kept to a minimum but typical voidage will be kept to less than 20% in lin with the WAC.
Waste Characterisation Form (WCH):	The waste does not meet the LLWR's Waste Acceptance Criteria (WAC). The waste has a current WCH. Inventory information is consistent with the current WCH. Some WAC issues identified with some of the vault disposal containers (i.e. Reactive metals >10m2 and TPH content) - discussions have been held with the compliance team and WCVs are being prepared. Some items also require removal and will be consigned under the 2N03 stream.
Waste consigned for disposal to LLWR in year of generation:	No. Typically 1-2 years following waste generation as there is little waste generated for LLW Disposal. Budget and resource constraints will also be a factor.

Non-Containerised Waste for In-Vault Grouting: (Not applicable to this waste stream)

Stream volume (%):	-
Waste stream variation:	-
Bounding cuboidal volume:	
Inaccessible voidage:	-
Other information:	-
RADIOACTIVITY	
Source:	Waste has become contaminated through contact with PCM waste stored / processed in the buildings.
Uncertainty:	Specfic activities have been based on sample results for waste items or similar waste items or inferred from monitoring data where available.Specific activities by mass have been converted to specific activities by volume, so uncertaities in the volume estimates will also be carried over.
Definition of total alpha and total beta/gamma:	Where totals are shown on the table of radionuclide activities they are the sums of the listed alpha or beta/gamma emitting radionuclides plus 'other alpha' or 'other beta/gamma'.
Measurement of radioactivities:	A number of characterisation methods have been used including; sampling, hand held monitoring and LRGS (for soft waste). The majority of measurement data used has been collected in the past two years.

Other information:

Waste is present with a range of specific activities within the LLW category.

WASTE STREAM 2N04 LLW from PCM Operations

	Mean radioactivity, TBq/m ³		Mean radioactivity, TBq/m ³				
	Waste at Bands				Bands and	Future	Bands and
Nuclide	1.4.2022 Co		Nuclide	1.4.2022	Code	arisings	Code
H 3	~7.10E-10 CO	C 2	Gd 153				
Be 10			Ho 163				
C 14			Ho 166m				
Na 22			Tm 170				
AI 26			Tm 171				
CI 36			Lu 174				
Ar 39			Lu 176				
Ar 42			Hf 178n				
K 40	~8.56E-09 C 0	C 2	Hf 182				
Ca 41 Mn 53			Pt 193 TI 204				
Mn 54			Pb 205				
Fe 55	~1.41E-11 C(2	Pb 200	~4.65E-09	CC 2		
Co 60		2 2 2	Bi 208	~4.05L-09	00 2		
Ni 59	00L 12 00	5 2	Bi 210m				
Ni 63			Po 210	~4.21E-09	CC 2		
Zn 65			Ra 223	1.212 00	002		
Se 79			Ra 225				
Kr 81			Ra 226	~4.88E-09	CC 2		
Kr 85			Ra 228	~6.65E-09	CC 2		
Rb 87			Ac 227				
Sr 90			Th 227				
Zr 93			Th 228	~1.34E-08	CC 2		
Nb 91			Th 229	~9.51E-12	CC 2		
Nb 92			Th 230	~4.38E-09	CC 2		
Nb 93m			Th 232	~1.62E-08	CC 2		
Nb 94			Th 234	~4.32E-10	CC 2		
Mo 93			Pa 231				
Tc 97			Pa 233				
Tc 99	~2.69E-10 C C	2 2	U 232	~8.45E-11	CC 2		
Ru 106			U 233				
Pd 107			U 234	~7.42E-07	BB 2		
Ag 108m			U 235	~3.13E-08	BB 2		
Ag 110m Cd 109			U 236 U 238	~6.08E-10	BB 2		
Cd 109 Cd 113m			0 238 Np 237	~8.45E-08 ~2.54E-10	CC 2 CC 2		
Sn 119m			Pu 236	~2.34E-10	00 2		
Sn 121m			Pu 238	~5.12E-07	BB 2		
Sn 123			Pu 239	~2.35E-05	BB 2		
Sn 126			Pu 240	~1.77E-06	BB 2		
Sb 125			Pu 241	~1.64E-05	BB 2		
Sb 126			Pu 242	~3.28E-08	BB 2		
Te 125m			Am 241	~7.00E-06	BB 2		
Te 127m			Am 242m				
l 129			Am 243				
Cs 134			Cm 242	~1.07E-10	CC 2		
Cs 135			Cm 243				
Cs 137	~1.5E-07 CO	2 2	Cm 244	~2.32E-11	CC 2		
Ba 133			Cm 245				
La 137			Cm 246				
La 138			Cm 248				
Ce 144			Cf 249				
Pm 145			Cf 250				
Pm 147			Cf 251				
Sm 147			Cf 252				
Sm 151 Eu 152			Other a Other b/g				
Eu 152 Eu 154			Total a	~3.38E-05	CC 2	0	
Eu 154 Eu 155			Total b/g	~3.36E-05 ~1.66E-05	CC 2	0	
24.00			l ota b/g			v	

Bands (Upper and Lower)

A a factor of 1.5 B a factor of 3 C a factor of 10 D a factor of 100 E a factor of 1000

Note: Bands quantify uncertainty in mean radioactivity.

Code

1 Measured activity
 2 Derived activity (best estimate)
 3 Derived activity (upper limit)
 4 Not present
 5 Present but not significant
 6 Likely to be present but not assessed
 7 Present in significant quantities but not determined
 8 Not expected to be present in significant quantity

8 Not expected to be present in significant quantity