

This is the Home Screen most lab workers will interface. It displays the lab worker that is logged in at the top right corner, the accessible icons across the bottom, and the "**HOME**" tab that will return you to this page from anywhere in the program.

From this page you can check your on-hand radioactive inventory and remove material, request waste supplies or a waste pickup, and see equipment assigned to your lab.

Let's get started, you want to check your on-hand inventory for an upcoming experiment. Select the "**Inventory**" icon at the bottom of the screen.

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This is the table of contents for the **RAM Inventory** page. The function of interest for on-hand inventory and removal of material is the "**Removal of Isotopes from PI's Inventory**".

- **Removal of Isotopes from PI's Inventory** shows all radioactive material (allowed by PI's permit) on-hand in inventory and includes the technical specifications of the material.
- View In-Lab Waste Containers allows a lab to see the waste disposal containers assigned to the lab.

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The **Quick Isotope Entry** page shows the technical information related to all stock items in inventory. This information takes up more than can be seen on the screen, scrolling to the right will bring up more of the entry.

New material is added to the PI's inventory when orders are received at the EHS Radiation Safety office and checked in.

Radiation Safety staff enter information into the database from the order requisition and packing list for each stock vial received. It is the responsibility of laboratory staff to verify this information is correct (i.e., isotope, activity, assay date, lot number, etc.) once the new material is delivered.

If there are any discrepancies contact the Radiation Safety Office as soon as possible.

(Radiation Safety Tech number: 434-982-4919)

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A single mouse click highlights the entry, a double mouse click will open the inventory information in page format in a new window (see next page).

This may make verifying the information easier.

The "Back Arrow" at the top will return you to the previous page, while clicking the "EHSA & Home" tab just below the "Back Arrow" will return you to the Homepage.

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The **Removal of Isotopes from PI's Inventory** page is the accounting page for use and disposal of radioactive material from a PI's inventory. Select the "Usage Log" tab in the upper left corner.

Radioactive stock can be removed by activity, volume, or percentage (this will be decided by laboratory use for each stock vial in a PI's inventory), once a choice is made however, it will be the withdrawal method for that stock vial until depleted.

Radioactive material stock vials are automatically assigned an inventory number upon receipt and package check in by the Radiation Safety staff. The inventory number is tied to all the technical data associated with that stock vial, the most important being the manufacturers' lot number. Always verify that material is being removed from the appropriate stock vial.

This page allows for the removal and use, tracking or transfer, aliquoting, and disposal of radioactive material for the various projects being conducted in the laboratory.

Because disposal is directly linked to the withdrawal of material from the stock vial it is critical that you have a waste container (a waste box for solids, or a plastic jar/jug for liquids) in the laboratory before you begin any projects. Withdrawal transactions cannot be completed without a registered "in lab waste container".

All radioactive waste containers are supplied to labs by the EHS Radiation Safety Office and are barcoded for inventory and disposal purposes.

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This **RAM Inventory Usage** page shows two stock vials available for use in the on-hand inventory. Select the inventory number of the isotope you want to use by placing the mouse cursor anywhere in the row and single click. The stock vial will be color highlighted.

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126001		I-125	5	5	mCi	01-26-2022	222222	Liquid	Test I-125	SPECIAL MATERIALS HANDLING FACILITY:RM 134	вв
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Double clicking this selection will bring up the **Usage** page which is where actual removal of material can be performed.

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Verify this is the correct stock vial by comparing the lot number recorded in the inventory to the lot number on the physical stock vial.

Next select the "+Add" tab to withdraw from this vial. This will open the "Add RAM Inventory Usage Page".

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This is where you will decide how this stock vial is to be distributed, by volume, activity, or percentage from the "Enter Usage Information" drop down menu.

Remember, this is a one-time selection per stock vial and cannot be changed.

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By Volume Disposal Date 1/27 By Activity Disposed By PAYNE, GREGORY					
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After selecting your usage criteria enter the amount of material you wish to withdraw. Then select a "Usage Category" that will show how this material will be used.

Some of the Usage Categories are not shown, and some of their uses are not self-explanatory.

A guide for the Usage Categories will be provided.

Comment boxes that open during any of this process are for lab use to describe what project the withdrawal was made for, or any other notes that are pertinent to the process.

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			⊗ Solid			• 10	0.00 %	0.048861	mCi Co	ontainer	Add Container			
							Container	Isotope(s)	Usage Category	Description	Location	Comments		
-			Totally Used?)			2022-01-D-0001	I-125	To RSO	DIS Seeds at SMHF	SPECIAL MATERIALS HANDLING FACILITY 140			
							2022-01-D-0001	0-14	Solid	2 cuft box	Medical Research Building 4:0125			
						<	2022-01-D-0007	I-125	Solid	1.0 cu ft cardboard box	SPECIAL MATERIALS HANDLING FACILITY:RM 134			
							2022-01-D-0013	P-32	Solid	2 cuit box	PINN Hall:5221			-
			Save Cancel											-

Once a Usage Category is selected a waste container drop down box appears to the right, if not select the "Container" drop down arrow or you can type the container number in directly. If you are drawing material to be used in an immediate project you must select a waste container assigned to your lab in order to complete this process.

The Usage Category used was "Solid" which means that the material used will generate solid waste, and most or all the radioactive material will be wasted in the container. As mentioned earlier, a waste container should be assigned to the lab before you start a radioactive material project.

This page will calculate the stock vail amount remaining, as well as keeping a running total of waste generated to the waste container.

NOTE: this is the same for liquid containers, however, an additional information box will be available for liquid constituents also going in with the waste. This is the same requirement managed on the paper waste ticket, to give the percentage and pH of all liquids being disposed of in the container.

Also, any EPA registered hazardous chemicals, or alcohols in concentrations >10% will constitute a "Mixed Waste" condition.

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			Inventory #		220126001			Re	ceipt Date	1/26/2022								- 1
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			Compound		Test I-125			No	ot Decayed	4.9	95114	mCi						
			Lot #		ZZZZZZ			De	cayed	4.89	93289	mCi						- 1
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			I-125		01-28-2022 V	/220127001	44395	100	2022-01-D-0007	Solid		0.04886	mC	Ci 📩				

Once you have made all your entries, save your work and the page above will display. You can see the amount of radioactive material used (in Activity) appears as a bar graph, and the waste is already assigned to the container with the usage activity posted.

The physical data of the stock vial are updated to reflect your withdrawal, i.e., "Decayed" activity, "Current Volume".

Press the large green "Done" tab and this will complete your transaction.



Waste disposal and supply reorder can be done from the Homepage using the icons at the bottom of the screen.

The closure requirements of waste containers are the same:

- Waste boxes tape or zip tie the yellow inner bag, close and tape the box lid, and perform a contamination survey of the exterior. If you have a Liquid Scintillation counter swipe the box exterior and count. If using a hand held Geiger-Muller meter, swipe the exterior and measure the swipe in a low background area. **DO NOT** take a direct measure of the waste container with the meter.
- Liquid jars/jugs secure the lid and perform a similar contamination survey of the exterior. Be sure you have listed the other chemical constituents on the waste request.

NOTE: disposal of waste containers is done through the "Inventory" icon.

Let's dispose of some waste and send a request for pick-up.

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withdrawal of radioactive material from the stock vial.

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Seal OAdd Container Survey ORequest Pickup	2022-01-D-0007	Solid waste	I-125		I-RAM	1.0		DIS		PAYNE, GRE	GORY	01-26
Seal Add Container Survey Request Pickup	2022-01-L-0005 (empty)	Liquid waste	I-125		I-RAM	2.5		LIQ		PAYNE, GRE	GORY	01-24
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This page displays all the waste containers that have been barcoded and assigned to the lab by the Radiation Safety Office. They are identified under the **Container #** column, waste boxes identified with a "**D**" in the barcode number, indicate "Dry Solids". Liquid containers (1 liter wide mouth jars & 10 liter Jerry Cans) are labeled with an "**L**" in the barcode.

The "(empty)" designation on the liquid container above means that no waste has been added to this container yet.

The small triangle at the beginning of the row will expanded the container to show the waste contents.

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# EHSA Waste / In Lab Containers		🛛 Help
View Archived In Lab Container Reports • TDispose • PI: Show All • View: In-Lab Waste Container • Container Category: RAM •		Options ·
Drag a column header and drop it here to group by that column		
Container # † Contents Description Isotope Container Type Waste Type	PI Name	Open
		T
Seal O Add Container Survey O Request Pickup 2022-01-D-0007 Solid waste I-125 I-RAM 1.0 DIS	PAYNE, GR	REGORY 01-26
+Add ≠Edit		
Isotope PI Origin PI Name Orig Inventory # Disposal Date Est. Disposal Date Waste Code Disposed?	Receipt Activ	rity Unit
1-125 I 220126001 01-28-2022 08-22-2024	0.04886	mCi
4		Þ
H I Page 1 of 1 H 500 V		1 - 2 of 2 items

This expanded view of the waste contents shows: the isotope, the inventory number of the stock vial, the date the material was placed into the container, the estimated disposal date (UVA EHS Radiation Safety allows $T^{1/2} \times 10$ before disposal), and the waste activity (in millicuries).

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Seal Add Container Survey	Request Pickup 202	22-01-D-0007	Solid waste	8	I-125	I-RAM	1.0	DIS	PAYNE, GREO	GORY	01-26
Seal Add Container Survey	Request Pickup 202	22-01-L-0005 (empty)	Liquid waste		I-125	I-RAM	2.5	LIQ	PAYNE, GREO	GORY	01-24
4											+
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To prepare a waste container for pickup:

- Click on the container you wish to dispose of (it will become highlighted).
- Perform a contamination survey of the container, i.e. take a swipe of the container and hold the swipe to the detector of your Geiger-Mueller meter, or count the swipe in a liquid scintillation counter.
- Enter the results by selecting the "+Add Container Survey", the window below will appear.

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itainer Survey			
	Container / Drain #	2022-01-D-0007	♪ Autofill
	Survey Date	1/31/2022	Î.
	Survey Information		
		1 Meter	DPM •
		Surface	mP/hr v
		Background	mR/hr •
		Survey Instrument	7
		Liquid Scint, Counte	r •
		рН	0
		Weight	🔹 Ibs.
		Surveyor	
		Comments	
Save Save	Cancel		

Enter the "Surface and Background" readings in the spaces provided, change the units to "DPM".

Select your survey meter serial number from the drop down box and save the results.

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# EHSA Waste / In Lab Containers								O Help						
View Archived In Lab Container Reports + 🗊 Dispose 🔹 🔻	PI: Show All	▼ View: In-I	Lab Waste Container	v Contair	ner Category: RAM	*		Options						
Drag a column header and drop it here to group by that column														
	Container / Drain # 🕇	Contents Description	Isotope	Storage Type	Container Type	Waste Type	PI Name	Open						
Seal O Add Container Survey O Request Pickup	2022-01-D-0007	Solid waste	I-125	I-RAM	1.0	DIS	PAYNE, GRE	EGORY 01-26						
Scal Add Container Survey Request Pickup	2022-01-L-0005 (empty)	Liquid waste	1-125	I-RAM	2.5	LIQ	PAYNE, GRE	EGORY 01-24						
	Confirm	1												
	Date S	Sealed 1/31/2022												
Are you sure you want to mark Container #: 2022-01-D-0007 as 'Sealed'?														
	Sea	Cancel												
								•						

After saving your survey results you will be returned to the in lab waste container page. You now have to electronically seal the container to start the countdown clock for disposal. Select the "**SEAL**" button at the beginning of the row for the container. The dialog box above will open, confirm that you want to seal the container.

Next, select the "**+Request Pickup**" button and confirm your information and select the "YES" button in the lower left corner, a notification will be sent to the Radiation Safety Office for collection of the waste, and you will see a confirmation notice.

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🚦 EHSA 🛛 Waste /	Containers / Drains	Edit Labels								0	Help 👻
+ Add • ZEat	Remove View Archive how All Waste Cenerators****	ed 🚅 Iranster	aste Request Pickup	View Container Inspections	posais More • Waste Container Reports	•				l	Options
Drag a column header	and drop it here to group b	by that colum	Container Information								
Days in Storage	Est. Disposal Date	Sealed D	Container #: 2022 Isotope: I-125 Location: SPE(0)	-01-D-0007 CIAL MATERIALS HANDLING FACILITY : SMI	HF:RM 140	Ŧ	Bac	rground	Su	irvey Instrur	ment
5 Days	09-22-2023	01-31-20	Request a pickup using the foll	owing waste request profile?							
7 Days			Waste Bro Ele			- 1					
4 Days			Contact	Contact Phone	Contact Email						
4 Days	06-20-2024		Myrsten, Michael (mfm5e)	(434)987-6367	MFM5E@Virginia.edu						
4 Days			PAYNE, GREGORY(GFP5D)	Environmental Health & Safety Office (EHS)							
62 Days			Request Date	Comments							
62 Days			LIN DAVA								
234 Days	11-28-2021		/								
48 Days					1						
49 Days											
12 Days	12-31-9999		♥ Yes ♥ Cancel								
122 Days	02-21-2022		Seal Add Conta	iner Survey							•
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The Radiation Safety Office supplies all solid and liquid waste containers to labs. Replacement containers can be requested with a waste pickup, list your supply needs in the "**Comments**" box.

Or, you can request supplies using the icon on the home page. A new order page will open.

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Apps film Human Resource	es Univer 🚯 12	VAC5-481 Table of Co	nt 🔇 Legislative Information Sys	S Environme	ntal Health & Sa 🕋 Workday	Central UVA HR 🛛 🛃 EHSA Menu		Reading list
⊞ EHSA Waste / Waste ≀	Supply Request							O Help
+ Add F Edit O Delete	View Completed							Options -
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•								•
K K O F H	500 🔻 items per pa	age						No items to display

The Waste Supply Request page allows labs to reorder radioactive material waste containers on demand.

Select the "+Add" tab in the upper left corner to open the order list form.

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	EHSA	Waste /	Waste Supply Reque	st / A	dd Waste Supply Re	equest					Save	Cancel	O Help
			Request Date		1/28/2022								
			Building				•	Allow Any Loo	cation				
			Lab			•							
								Commente		*Special Dequast Dequire Comm	onto		
			Quantity	Des	cription			Comments		Special Request Require Comm	ients		
			0	1 Li	ter Widemouth Jar								
			0	1.0	cu ft cardboard box								
			0	2 cu	ift box								
			0	2.5	gallon Jerry Can								
			0	LSV	TRAY								
			0	Mise	cellaneous container								
							-	*					
			Save	ancel									

This dialogue screen should be easy to follow, just select the supplies and quantities from the list. Depending on the quantity ordered Radiation Safety may adjust the request to a more appropriate number to prevent stockpiling of containers.

Fill in your selections and save, a line item will display on the screen to indicate a successful request.

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EHSA Waste / Wa	ste Supply Reque	est									O H
+Add ✓Edit ⊙Dele	te View Completed	1									Option
Drag a column header and	drop it here to group	by that column									
Supply Request #	Request Date	Part of Waste	Location		Submitted By	Item(s) Requested		Completed	Comr	letion Date	Complete
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SR0000003	01-31-2022				Worker, Lab	1 2 cuft box			0		
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