|  | | | **Type of Waste** | | | **Chemical**  **Present?** | | **Description** | | **Collection & Decontamination** | | **Disposal Method** | **Contact information** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | | | **Animal Tissue**   * **Free-floating in liquid fixative or preservative** | | | **YES**  ***Contains toxic or hazardous chemicals*** | | * Anatomical specimens * Histology/necropsy/pathology specimens | | * In closed glass jars * In other closed containers | | * Fill out **Chemical Waste Pickup** online form; use the EHS Safety Management System, or use link in next column. * Print out a copy of this form and attach it to waste. * Place waste in secondary container (pan).  Put in safe temporary storage location while waste awaits pickup. | EHS  <https://secure.hosting.vt.edu/www.ehss.vt.edu/programs/LMS/waste_management.php> |
| **2** | | | **Animal Carcasses/ Parts Of Carcasses/ Tissue:**   * **Associated with research or other procedures involving hazardous chemicals, including chemotheraputics & hazardous drugs** * **Fixed or unfixed** * **Not in liquid** | | | **YES**  ***Contains toxic or hazardous chemicals*** | | * May or may not also contain   rDNA and/ or potentially infectious material   * May be anatomical specimens | | * Store in freezer or cooler in appropriate biohazard bag OR Shaffers, depending on size or volume of material. * If in bags, label contents clearly: for incineration only. * If in Shaffers, attach ‘FOR INCINERATION ONLY’ stick-on label to outer surface of each container. * LABELS ARE AVAILABLE THROUGH EHS. | | * Arrange for disposal as follows by contacting EHS through online request system (see website listed). * On the day the contractor is expected to do RMW pickup, place bagged frozen/refrigerated carcasses in **RMW boxes & label each ‘FOR INCINERATION ONLY’.** * Make sure boxes & Shaffers are located in the designated pickup area. * Contractor will pick up for incineration. | EHS  <http://www.ehss.vt.edu/programs/waste_removal.php> |
| **3** | | | **Animal-Related Products --**   * **Associated with research or other procedures involving hazardous chemicals, including chemotheraputics & hazardous drugs** | | | **YES**  ***Contains toxic or hazardous chemicals*** | | * Bedding * Excreted waste * Bandage material, gloves, disposable cleaning materials, etc. | | * Decided on a case-by-case basis as determined by :   -- chemical agents used  -- circumstances of use  -- type of material used, etc.   * CONSULT EHS. | | * IF WASTE IS DETERMINED TO BE CHEMICALLY HAZARDOUS, IT MUST BE DISPOSED OF IN **AN RMW BOX OR SHAFFER MARKED ‘FOR INCINERATION ONLY,**’ AS DESCRIBED ABOVE. | EHS  [chemwaste@vt.edu](mailto:chemwaste@vt.edu) |
| **4** | | | **Companion Animals for Cremation** | | | **NO**  **No toxic or hazardous chemicals present** | | * These are not eligible for rendering under any circumstances | | * Store in cooler in cadaver bag. * Bags will be labeled in accordance with ViTALS Necropsy SOP. | | Private crematory will visit campus once per week & pick up remains from ViTALS Necropsy lab. | ViTALS Necropsy  231-4619 |
| **5** | | | **Companion Animals for Disposal** | | | **NO**  **No toxic or hazardous chemicals present** | | * These are not eligible for rendering under any circumstances | | * Store in freezer or cooler in appropriate biohazard bag OR Shaffers, depending on size or volume of material. * If in bags, label contents clearly: for incineration only. * If in Shaffers, attach ‘FOR INCINERATION ONLY’ stick-on label to outer surface of each container.   LABELS ARE AVAILABLE THROUGH EHS. | | * Arrange for disposal as follows by contacting EHS through online request system (see website listed). * On the day the contractor is expected to do RMW pickup, place bagged frozen/refrigerated carcasses in **RMW boxes & label each ‘FOR INCINERATION ONLY’.** * Make sure boxes & Shaffers are located in the designated pickup area.   Contractor will pick up for incineration | EHS  <http://www.ehss.vt.edu/programs/waste_removal.php> |
| **6** | | | **Animal Carcasses/**  **Parts Of Carcasses**   * **Unfixed** * **APPROPRIATE FOR RENDERING:**   **See ‘Description’ for this criteria** | | | **NO**  **No toxic or hazardous chemicals present** | | **If all of these apply:**   * NO companion animals-dogs/cats * NO material consisting of all-heads/spinal cords from cattle * NO material consisting of all-ovine (sheep) tissues * NO infectious agents/ NO history of infectious disease/ NO RMW wastes * NO rDNA molecules used/no transgenic animals * Fit to go back into the food chain | | * Collect in white open-top drums provided by Facilities. * Fluid much be at least 5 inches below rim of drum. * No material may protrude from drum. * Drums should be loaded to capacity. * Filled drums may be left open. * Improperly filled drums will not be removed for disposal. | | Valley Proteins will be on campus on Tuesdays and will pick up from the former dry-rendering facility and FS&T building.  Other departments requiring pick up should call & schedule. | **Facilities**  **231-9915**  **[Valley Proteins](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)**  **[4857 Poor Mountain Rd](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)**  **[Salem, VA 24153](https://search.yahoo.com/local/s;_ylt=A0LEVu.jbMpUi28A2zgPxQt.?p=Valley+Proteins+Incorporated&addr=Salem%2CVA&listingid=12889173&hspart=mozilla&hsimp=yhs-001&fr=yhs-mozilla-001" \t "_blank)**  **(540) 380-2032**  [**valleyproteins.com**](http://r.search.yahoo.com/_ylt=A0LEVu.jbMpUi28A3DgPxQt./RV=2/RE=1422581028/RO=10/RU=http%3a%2f%2fvalleyproteins.com/RK=0/RS=UBX4JLnBod57K8Q0pNM5_lVsY1g-)  EHS  [chemwaste@vt.edu](mailto:chemwaste@vt.edu) |
| **7** | | | **Euthanized Animal Carcasses/ Parts Of Carcasses / Tissues**   * **No Companion Animals** * **APPROPRIATE FOR RENDERING:**   **See ‘Description’ for this criteria** | | | **YES**  **Approved euthanasia drugs present** | | **If approved drugs were used:**   * Sodium thiopental * Sodium Pentobarbital –   100 or > mg/kg, IV   * Sodium pentobarbital 390 mg + sodium phenytoin 50 mg/ml * Potassium Chloride 1-2 Meq/kg * Tricaine methane sulfonate (MS-222) – 3g/liter water * Benzocaine hydrochloride – 250mg/liter water   **IF OTHER DRUGS USED FOR EUTHANISIA, PLEASE CONTACT EHS HAZARDOUS MATERIALS MANAGER TO SEE IF TISSUE CAN BE RENDERED.**  **IF DRUGS USED DISQUALIFY TISSUE FOR RENDERING, DISPOSE OF TISSUE AS IN ROW 2 OF THIS CHART.** | |
| **8** | | **Animal Carcasses/ Tissues/**  **Parts Of Carcasses**   * **Unfixed** * **NOT APPROPRIATE FOR RENDERING:**   **See ‘Description’ For This Criteria** | | | **NO**  **No toxic or hazardous chemicals present** | | **If one or more of these apply:**   * Biological hazardous material is involved (infection for research, etc.) * rDNA molecules are involved * The animals were genetically modified (transgenic) * History of infectious disease (animal or human) * Material deemed infectious to humans by Vet Med pathologist | | ABSL-1 & ABSL-2 (BL1-N, BL2-N):   * Collect in clear autoclavable bags (NO biohazard symbol) * ***Autoclave\**** or freeze until day of RMW pickup. * Place in RMW box; tape box seams & label box. | | **Regulated Medical Waste (RMW) for INCINERATION ONLY**  Contractor will pick up on a schedule  Regular trash  **Bedding and other solid waste may be disposed of in the dumpster (no carcasses)** | | EHS  [rmw@vt.edu](mailto:%20rmw@vt.edu)  <http://www.ehss.vt.edu/programs/waste_removal.php> | |
| ABSL-3 (BL3-N):   * Collect in red autoclavable bags with the biohazard symbol. * ***Autoclave\*;*** place in RMW box; tape box seams & label box. | |
| **If material is:**  ***\*Too large to autoclave***   * All heads & spinal cords from bovine (cattle) * All ovine (sheep) * Any part of any animal that has been  determined to be unfit for rendering or to return to the food chain | | * Place in 96 gallon containers provided by EHS (Shaffers). * Store in designated cooler or outer facility. * Arrangements must be made at least 2 weeks prior to time containers are needed. | |
| **9** | **Animal-Related Waste**   * **Non-infectious** * **No rDNA present** | | | **NO**  **No toxic or hazardous chemicals**  **present** | | | Bedding, disposable containers, etc. that are a low risk to humans, animals or the environment (based on a risk assessment). | | * Bag the waste before disposal. | | **Regular Trash**  **Bedding and other solid waste may be disposed of in the dumpster (no carcasses)** | | Contact EHS if you have questions or concerns.  [rmw@vt.edu](mailto:%20rmw@vt.edu) | |
| **10** | **Animal-Related Waste**   * **Potentially infectious at BSL-1** | | | **NO**  **No toxic or hazardous chemicals** | | | Material that has been in contact with biohazardous agents or posing a potential risk to either humans, animals or the environment  (e.g., bedding, disposable caging, related animal waste products, etc.) | | ABSL-1 (BL1-N):   * Collect in clear autoclavable bags (NO biohazard symbol) * Autoclave or put in Shaffers if too much to bag | |
| **11** | **Animal-Related Waste**   * **Potentially infectious or rDNA present** | | | **NO**  **No toxic or hazardous chemicals** | | | Material that has been in contact with biohazardous agents or rDNA molecules posing a potential risk to either humans, animals or the environment  (e.g., bedding, disposable caging, related animal waste products, etc.) | | ABSL-2 (BL2-N):   * Collect in orange autoclavable bags with the biohazard symbol * Autoclave or put in Shaffers if too much to bag | | **Regulated Medical Waste (RMW)** | | EHS  [rmw@vt.edu](mailto:%20rmw@vt.edu) | |
| **SHARPS** | | | **NO**  **No toxic or hazardous chemicals** | | | Needles, glass slides, broken plastic, scalpel blades (or any other material with a sharp edge or fine point which could puncture a plastic bag) that has been in contact with biohazardous agents or rDNA | | * Collect in hard plastic sharps containers with spill proof lids and biohazard symbol. These can be obtained from EHS. * Autoclave. | |
| **12** | **Blood Collection Tubes** | | | **NO**  **No toxic or hazardous chemicals** | | | Discard with tubes capped. | | * Collect in hard plastic sharps containers with spill proof lids & biohazard symbol. These can be obtained from EHS. | |
| **13** | **Liquids** | | | **NO**    **No toxic or hazardous chemicals** | | | Any liquid that has been in contact with biohazardous material or rDNA. | | * Autoclave, or add of appropriate amount of commercial disinfectant with appropriate contact time. | | Pour down sanitary sewer. | | Contact EHS if you have questions or concerns.  [rmw@vt.edu](mailto:%20rmw@vt.edu) | |
| **14** | **Radioactive Material**   * **short half-life** | | | **N/A** | | | Animal carcasses/tissues/waste/ bedding treated | | * Contact RSO. * Store animal tissue double-bagged in designated rad. Freezer. * Store other material double-bagged in designated area for Rad. Waste.   RSO will scan for activity before disposal. | | **RSO will dispose of material as**  **Regulated Medical Waste**  **FOR INCINERATION ONLY** | | Doug Smiley  Radiation Safety Officer  EHS  231-5364 | |
| **15** | **Radioactive Material**   * **Long half-life, low concentration** | | | **N/A** | | | Animal carcasses/tissues/waste/ bedding containing C-14 or tritium at  **≤ 0.05 µCi per gram** | | * Contact RSO. * Store tissues double-bagged in designated rad. Freezer until pickup. * Store other material double-bagged in designated area for Rad. Waste until pickup. | | **RSO will dispose of material as**  **Regulated Medical Waste**  **FOR INCINERATION ONLY** | | Doug Smiley  Radiation Safety Officer  EHS  231-5364 | |
| **16** | **Radioactive Material**   * **Long half-life, high concentration** | | | **N/A** | | | Animal carcasses/tissues/waste/ bedding containing C-14 or tritium at  **>** **0.05 µCi per gram** | | * Contact RSO. * Store tissues double-bagged in designated rad. Freezer until pickup. * Store other material double-bagged in designated area for Rad. Waste until pickup. | | **RSO will dispose of material as**  **RADIOACTIVE WASTE FOR INCINERATION ONLY & BURIAL IN LICENSED FACILITY** | |
| **IF RADIOISOTOPES OTHER THAN C-14 OR TRITIUM ARE USED, PLEASE CONSULT THE RADIATION SAFETY OFFICER FOR PROPER DISPOSAL METHOD.** | | | | | | | | | | | | |  | |

NOTE: EHS picks up boxed RMW from laboratories; Sci-Med is on campus three times per week to pick up collected RMW from central sites.

1) For specific packaging requirements for RMW, please see: <http://www.ehss.vt.edu/programs/WRM_packaging.php>

2) To schedule a REGULATED MEDICAL WASTE pick up, please see: <http://www.ehss.vt.edu/programs/WAS_rmw_removal.php>

1. To schedule a CHEMICAL WASTE pick up, please see: <https://secure.hosting.vt.edu/www.ehss.vt.edu/programs/LMS/waste_management.php>

or schedule through the EHS Safety Management System: [www.ehss.vt.edu](http://www.ehss.vt.edu)