

**State of Vermont
Agency of Natural Resources**

HAZARDOUS WASTE FACILITY PERMIT

**10 V.S.A. Chapter 159
Vermont Hazardous Waste Management Regulations § 7-504**

Applicant: University of Vermont and State Agricultural College
Department of Environmental, Health, and Safety
UVM BioResearch Complex
667 Spear Street
Burlington, Vermont 05405

EPA ID No: VTD000636563

Facility: University of Vermont and State Agricultural College
Environmental Safety Facility
UVM BioResearch Complex
667 Spear Street
Burlington, Vermont 05405

Permit Period: Ten (10) years from date of signing

FINDINGS OF FACT

1. The University of Vermont and State Agricultural College (hereafter called UVM) is a public institution of higher education. The Environmental Safety Facility (hereafter called ESF) is a hazardous waste treatment and storage facility owned and operated by UVM, which is located at 667 Spear Street in Burlington, Vermont. The ESF is used by UVM to provide hazardous waste management services to its various administrative, academic and research departments. UVM also supports local community hazardous waste collection activities through this facility. A description and drawings of the ESF are provided in **Appendix B**.
2. The ESF was first issued a hazardous waste facility permit on June 12, 1991. The facility was issued a renewal permit on November 20, 2012, that was scheduled to expire on November 20, 2022. Through UVM's submittal of a timely and administratively complete renewal application, the permit issued on November 20, 2012, was continued in full force and effect pursuant to the **VHWMR § 7-504(h)**.
3. This permit governs the management, storage, and treatment of hazardous waste pursuant to 10 V.S.A. Chapter 159 and the VHWMR, non-hazardous waste and waste that is exempted or conditionally exempted from regulation under the VHWMR at the ESF.

4. UVM has submitted information determined by the Agency to be equivalent to a RCRA Facility Assessment (RFA) and RCRA Facility Investigation (RFI). This information is included in the administrative record for the ESF within the Waste Management & Prevention Division's Sites Management Section electronic files. This information describes whether any releases or likely releases have occurred. Any required corrective action at this facility is identified in **Section 11**.
5. A list of permits issued to UVM for its ESF is found in **Appendix M**.
6. At this time, there is no known release of hazardous constituents to the environment at the ESF, and in accordance with 40 CFR Part 264 Subparts F and S, no corrective action, as referenced in **Section 11**, is necessary at this time.

CONDITIONS

Section 1: General Conditions

- 1.1 For the purposes of this permit, the terms used herein shall have the same meaning as those in the VHWMR and **40 CFR Parts 124, 264, 266, 268 and 270**, unless this permit specifically states otherwise. Where terms are not defined in the VHWMR, 40 CFR, or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.
- 1.2 As used in this permit, the term “permit” has the same meaning as “certification” as used in the VHWMR and **10 V.S.A. § 6606**.
- 1.3 As used in this permit, the term “Director” means:

Division Director - Waste Management & Prevention Division
Department of Environmental Conservation
Vermont Agency of Natural Resources
- 1.4 As used in this permit, the term “waste” means hazardous waste, non-hazardous waste and waste that is exempted or conditionally exempted from regulation under the VHWMR.
- 1.5 “Secretary” means the Secretary of the Vermont Agency of Natural Resources or his or her duly authorized representative. When implementing the provisions of **10 V. S. A. §§ 6608a and 6608b** relating to economic poisons and low-level radioactive wastes, the term Secretary includes the Secretary of Agriculture, Food & Markets, and the Commissioner of Health.
- 1.6 “Agency” means the Vermont Agency of Natural Resources.
- 1.7 “RCRA” means Resource Conservation and Recovery Act (RCRA) of 1976, (42 USC § 6901 et seq.).

- 1.8 UVM shall maintain compliance with the VHWMR as amended. UVM shall modify this permit in accordance with **Condition 2.5** if an amendment to the VHWMR results in conflict between the permit and the amended VHWMR.
- 1.9 The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid, such a determination shall not have any effect on the validity of the remainder of the permit, or on the application of the provision to other circumstances.
- 1.10 The permit does not convey any property rights of any sort, or any exclusive privilege.
- 1.11 This permit is not transferable to any person except after written notice to the Secretary by certified mail or other means that establish proof of delivery. The Secretary may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under **40 CFR § 270.40**.
- 1.12 In the event that the land on which the facility is located is transferred to a new owner, any actions or inactions of the landowner, or refusal by the landowner to provide access to UVM or the Secretary, shall not be a defense for UVM for any non-compliance with this permit or the VHWMR.
- 1.13 UVM shall comply with all applicable statutes, rules, and regulations of any federal, state, or local authority as may be amended. This permit shall not be a shield to the continued conformance to regulatory requirements.
- 1.14 The Secretary may require UVM to establish and maintain an information repository at any time, based on the factors set forth in **40 § CFR 124.33(b)**. The information repository will be governed by the provisions in **40 CFR §§ 124.33(c)** through **(f)**.
- 1.15 All waste received by the ESF including any hazardous waste, non-hazardous waste and waste that is exempted or conditionally exempted from regulation under the VHWMR, shall be managed according to the terms of this permit, as renewed, and modified.
- 1.16 For all waste received by the ESF that is subject to the **VHWMR § 7-204(i)** “fuel-to-fuel” exemption UVM must:
 - (a) Evaluate the waste to verify that the waste contains “recoverable” fuel content (i.e., at least 1% fuel);
 - (b) Verify that waste information profiles associated with the waste identifies the potential fuel-to-fuel exempt status of the waste;
 - (c) Segregate the waste within the facility (or have an inventory system capable of identifying all fuel-to-fuel waste and its location within the facility);
 - (d) Mark containers to identify the “fuel-to-fuel exempt” status of the waste; and

- (e) Maintain records that, at a minimum, contain the information required under **VHWMR § 7-204(I)(3)**.

- 1.17 Unless otherwise specified, when reference is made to a specific subchapter, section, or subsection of the VHWMR, the reference is to the VHWMR which became effective February 1, 2022.

Section 2: Duration, Modification and Renewal of Permit

- 2.1 This permit shall be effective for 10 years from the date of signing.
- 2.2 If UVM wishes to continue an activity regulated by this permit after the expiration date of this permit, UVM must apply for and obtain a new permit. in accordance with requirements provided in **VHWMR §7-505**.
- 2.3 Pursuant to **40 CFR § 270.10(h)(1)**, if UVM wishes to continue an activity regulated by this permit after the expiration date of this permit, UVM shall submit a new application at least 180 days before the expiration date of this permit, unless permission for a later date has been granted by the Secretary. Permits continued under **40 CFR § 270.10(h)(1)** remain fully effective and enforceable.
- 2.4 Pursuant to **VHWMR §7-504(h)(1)**, this permit and all conditions will remain in effect beyond the permit's expiration date, if UVM has submitted a timely, administratively complete application for a renewed permit, and, through no fault of UVM, the Secretary has not issued a new permit. Permits continued under **VHWMR §7-504(h)(1)** remain fully effective and enforceable.
- 2.5 If any of the causes for modification found in **VHWMR §7-507(e)** apply, UVM shall seek a permit modification prior to making physical alterations or operational changes. Class I modifications for which prior approval is not required under **40 CFR § 270.42** may be implemented without prior notice or approval by the Secretary by certified mail or other means that establish proof of delivery of the modification is submitted to the Director within seven (7) calendar days after the change is put into effect. This notice must specify the changes that have been implemented and must explain why the changes were necessary.
- 2.6 This permit may be modified, revoked, and reissued, or terminated for cause. The filing of a request by UVM for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

Section 3: Compliance and Enforcement

- 3.1 UVM shall allow the Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- (a) Enter at reasonable times upon the ESF premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - (d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by RCRA, any substances or parameters at any location.
- 3.2 UVM shall give advance notice to the Director of any planned changes to the permitted facility or activity which may result in noncompliance with permit requirements. UVM may not treat, store, or dispose of hazardous waste in any modified portion of the facility except as provided in **40 CFR § 270.42**, until:
- (a) UVM has submitted to the Director by certified mail or hand delivery a letter signed by UVM and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and
 - (b) (i) The Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or

(ii) Within 15 days of the date of submission of the letter in paragraph (a) of this condition, UVM has not received notice from the Director of his or her intent to inspect, prior inspection is waived and UVM may commence treatment, storage, or disposal of hazardous waste.
- 3.3 Notwithstanding any other provisions of this permit, enforcement actions may be brought pursuant to **10 V.S.A. Chapters 159, 201, and 211**.
- 3.4 It shall not be a defense for UVM in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 3.5 Compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under **10 V.S.A. Chapters 159, 201, or 211**, or **§§ 3008(a), 3008(h), 3013, or 7003** of the Resource Conservation and Recovery Act (RCRA) of 1976, (42 USC § 6901 et seq.) or **§§ 106(a), 104 or 107** of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980 (42 U.S.C. § 9601 et seq.), or any other law providing for protection of public health or the environment.

Section 4: Duties of the Permit Holder

- 4.1 UVM must comply with all conditions of this permit, except that UVM need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency permit. Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of the appropriate Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- 4.2 In the event of noncompliance with the permit, UVM shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.
- 4.3 UVM shall furnish to the Secretary, within a reasonable time, any relevant information which the Secretary may request to determine whether cause exists for modifying, revoking, and reissuing, or terminating this permit, or to determine compliance with this permit. UVM shall also furnish the Secretary, upon request, copies of records required to be kept by this permit.
- 4.4 UVM shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.
- 4.5 The Contingency Plan contained in **Appendix G** shall be reviewed and, if necessary, amended in accordance with **Condition 2.5** of this permit, whenever:
 - (a) This permit is amended;
 - (b) The plan is implemented;
 - (c) The facility changes (in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or the release of a hazardous waste or its constituents, or changes the response to an emergency;
 - (d) The list of emergency coordinators changes; or
 - (e) The list of emergency equipment changes.
- 4.6 UVM shall submit a copy of the Contingency Plan, and all amendments of that plan, to the local police department, fire department, hospital(s) and any other state or local emergency service provider(s) that may be called upon in the event of an emergency. A record of transmittal of the Contingency Plan to each service provider named above shall be maintained at the facility.
- 4.7 UVM shall attempt to maintain emergency service arrangements with the state and local authorities specified in **Condition 4.6**. If any of these authorities decline to enter into such an arrangement, UVM must document this refusal in the facility operating record.

- 4.8 UVM shall retain copies of all reports required by the terms and conditions of this permit and records of all data used to complete its permit application for at least three (3) years from the date of the report or the submission of the application. This retention period and other retention periods required by the terms and conditions of this permit shall be automatically extended during the pendency of any unresolved enforcement action involving UVM.
- 4.9 UVM shall maintain a written operating record, either at the facility or at an alternative location approved by the Secretary, which includes all applicable requirements of **40 CFR § 264.73** and any additional requirements listed below. The information contained in the written operating log shall be maintained, as it becomes available, in the operating record until facility closure is completed in accordance with **Section 9**.
- (a) A description and the quantity of each hazardous waste received at the facility and the method(s) and date(s) of its receipt, treatment, or storage;
 - (b) A current inventory of each hazardous waste within the facility and the quantity at each location. This information must include cross-references to specific manifest numbers if the waste is accompanied by a manifest;
 - (c) Records and results of any waste screening or analysis performed (**Appendix I**);
 - (d) The contingency plan and all amendments, and a notation of the time, date, and details of any incident that requires implementation of the Contingency Plan (**Appendix G**);
 - (e) Records and results of inspections (except these data need be kept only 3 years);
 - (f) Monitoring, testing or analytical data and corrective action where required by **40 CFR § 264.191, § 264.193, § 264.195 and § 264.1064**;
 - (g) Notices to generators as specified in **40 CFR § 264.12(b)** (notice of appropriate permits and waste acceptance);
 - (h) The closure plan, the initial closure cost estimate, and all subsequent closure cost estimates prepared under **Conditions 9.2 and 9.3**;
 - (i) Plans submitted in accordance with **10 V.S.A., § 6629** (Toxic Use Reduction and Hazardous Waste Reduction Plan);
 - (j) Records demonstrating that storage of hazardous waste at the facility for a period beyond one year was necessary for the purpose of accumulation of quantities of hazardous waste necessary to facilitate proper recovery, treatment, or disposal. These records shall be required beginning when storage has been for a period of one year;
 - (k) A record of refusal by any state and local authority as stated under **Condition 4.7**, who declines to enter into an arrangement to provide emergency services to the facility;

- (l) Records of hazardous waste storage area containment surface inspections required under **Condition 4.19**; and
 - (m) A copy of the current information provided to state and local authorities and first responders for the purpose of emergency preparedness and prevention pursuant to **Condition 4.18**.
- 4.10 UVM shall maintain the following personnel documents and records at the facility:
- (a) A listing of the job title for each position at the facility related to hazardous waste management and the name of the employee filling that position;
 - (b) A written job description for each position listed above which includes the requisite skill, education, or other qualification, and duties of employees assigned to the position;
 - (c) A written description of the employee training required for each position listed in **Appendix H**; and
 - (d) Records verifying that the employee training program contained in **Appendix H** has been presented to, and completed by, appropriate facility personnel.
- 4.11 Training records on current ESF personnel shall be kept until facility closure is completed in accordance with **Section 9**. Training records on former employees shall be kept for at least three (3) years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within UVM. Personnel training records for current and past ESF personnel may be kept in a central database outside of the Environmental, Health, and Safety Department.
- 4.12 UVM shall follow the waste analysis procedures contained in **Appendix I**.
- 4.13 Prior to accepting waste from a source, UVM shall follow the waste approval process described in the Waste Analysis Plan contained in **Appendix I**. At a minimum, the waste approval process shall identify for each waste all of the information necessary for shipment to, and acceptance by, an appropriate treatment, storage, and disposal facility. In addition, the waste approval process shall be followed in the event that UVM is notified or has reason to believe that the process generating the waste has changed.
- 4.14 All sampling, monitoring, and/or analysis performed in relation to activities covered by this permit shall be performed according to the appropriate method specified in the edition of "Test Methods for Evaluating Solid Waste, SW-846, Standard Methods of Wastewater Analysis", or an equivalent method, such as those developed by the American Society for Testing and Materials (ASTM) incorporated in the VHWMR by reference or approved by EPA through rulemaking or by the Secretary in writing. If other methods are to be used, UVM shall receive approval from the Secretary prior to utilizing the methods. The Secretary may reject any data that does not meet the requirements of EPA analytical methods and may require re-sampling and additional analysis.

- 4.15 UVM shall document the name(s), address(es), and telephone number(s) of any consultant(s) and/or laboratory(ies) retained by UVM to perform sampling, monitoring, and/or analysis required by the Waste Analysis Plan contained in **Appendix I**.
- 4.16 UVM shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, the certification required by **40 CFR § 264.73(b)(9)**, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, certification, or application. This period may be extended by request of the Secretary at any time. UVM shall maintain records from all groundwater monitoring wells and associated ground-water surface elevations, for the active life of the facility, and for disposal facilities for the post-closure care period as well.

Records for monitoring information shall include:

- (a) The date, exact place, and time of sampling or measurements;
 - (b) The individual(s) who performed the sampling or measurements;
 - (c) The date(s) analyses were performed;
 - (d) The individual(s) who performed the analyses;
 - (e) The analytical techniques or methods used; and
 - (f) The results of such analyses.
- 4.17 UVM shall submit to the Director, upon request, the results of all sampling and/or tests or other data generated pursuant to **Section 11** (Corrective Action).
- 4.18 UVM shall provide written information regarding waste quantities, types, and locations at the facility, to state and local authorities (including SERCs and LEPCs) and first responders for the purpose of emergency preparedness and prevention and place a copy of this information in the facility's operating record. Such information shall be updated as necessary, and the updates shall be provided to state and local authorities and first responders. The written information shall also describe the layout of the facility, locations where personnel normally work, and entrances and possible evacuation routes.
- 4.19 UVM shall inspect each hazardous waste storage area containment surface at least once every five (5) years by removing the grates from the surface of the secondary containment system and assessing the surface area below to ensure that all surfaces are free of cracks or gaps per **40 CFR §264.175(b)(1)**. The inspector's name, date of inspection and inspection findings shall be recorded in the written facility operating record pursuant to **Condition 4.9(I)**.

Section 5: Facility Design and Operation

- 5.1 UVM shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by UVM to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.
- 5.2 UVM shall design, maintain, and operate the facility in a manner which minimizes the possibility of a fire, explosion, or any unplanned, sudden, or non-sudden release of a hazardous waste or hazardous waste constituents to air, soil, surface waters or groundwater which could threaten human health or the environment. At a minimum, UVM shall maintain and operate the facility in accordance with the preparedness and prevention procedures contained in **Appendix G**.
- 5.3 In the event of a fire, explosion, or any unplanned sudden or non-sudden release of a hazardous waste or hazardous waste constituents to air, soil, surface waters or groundwater which could threaten human health or the environment, UVM shall take all actions necessary to minimize the threat by immediately implementing the applicable provisions of the Contingency Plan contained in **Appendix G**.
- 5.4 Spills, leaks, drips, and other discharges which occur as a result of the storage, loading, transfer, or other handling of waste shall be immediately cleaned up in accordance with the procedures in the Contingency Plan contained in **Appendix G**. Any spill related debris generated from such events shall be managed in accordance with this permit and the VHWMR.
- 5.5 UVM shall inspect the facility for malfunctions and deterioration, operator errors, and discharges which may be causing, or may lead to, a release of hazardous waste constituents to the environment, or a threat to human health. UVM shall conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment. At a minimum, UVM shall follow the facility inspection schedules contained in **Appendix J**.
- 5.6 UVM shall remedy any deterioration or malfunction of equipment or structures which the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action shall be taken immediately in accordance with the Contingency Plan contained in **Appendix G**.
- 5.7 Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

- 5.8 All monitoring equipment required by this permit shall be properly installed, used, and maintained and the appropriate monitoring methods used.
- 5.9 Hazardous waste treatment, storage, or disposal activities other than those specified in this permit are prohibited.
- 5.10 UVM may receive from off-site, store, and/or transfer for treatment and/or disposal only those hazardous wastes specified in **Appendix C**.
- 5.11 UVM shall store, and/or transfer for disposal waste only in those areas of the ESF specified in **Appendix B**.
- 5.12 The maximum amount of hazardous waste in storage at any point in time shall not exceed 188 fifty-five (55) gallon drums or its equivalent of the hazardous wastes specified in **Appendix C**, including no more than 20 fifty-five (55) gallon drums or its equivalent in each of the rooms in the main ESF that are designated as waste storage areas in Appendix B, and eight fifty-five (55) gallon drums or its equivalent in the separate Reactives Storage Building.
- 5.13 UVM shall maintain aisle space between rows of containerized waste stored at the facility that is sufficient to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment and decontamination equipment. In no circumstance shall the aisle space be less than 24 inches wide.
- 5.14 UVM shall manage all containerized waste stored at the facility in accordance with the procedures in **Appendix E**.
- 5.15 UVM shall maintain at the facility the equipment identified listed **Appendix G**.
- 5.16 UVM shall prevent the unknowing entry of, and minimize the possibility for unauthorized entry of, persons or livestock onto any portion of the facility. UVM shall maintain security devices and warning signs in accordance with the Security Plan contained in **Appendix F**.
- 5.17 Any work plans developed for the purposes of closure, post-closure, or corrective action shall be approved by the Secretary prior to implementation.
- 5.18 All waste accepted by the ESF shall be shipped to a designated facility within one year, unless it can be demonstrated that insufficient quantities exist to facilitate proper recovery, treatment, or disposal. Records demonstrating the storage of hazardous waste at the facility that was necessary for a period beyond one year shall be recorded in the written facility operating record pursuant to **Condition 4.9(j)**.

Section 6: Reporting Requirements

- 6.1 All applications, reports, or information submitted to the Director shall be signed and certified in accordance with **VHWMR § 7-108**.

- 6.2 All reports, notifications, and submissions required by this permit shall be submitted via ANR/NRB Online Services Portal found at <https://anronline.vermont.gov>.
- 6.3 Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- 6.4 Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- 6.5 Reporting noncompliance.
 - (a) UVM shall orally report any noncompliance which may endanger health or the environment immediately upon discovery of the noncompliance, including:
 - (i) Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies.
 - (ii) Any information of a release or discharge of hazardous waste or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility.
 - (b) The description of the occurrence and its cause shall include:
 - (i) Name, address, and telephone number of the owner or operator;
 - (ii) Name, address, and telephone number of the facility;
 - (iii) Date, time, and type of incident;
 - (iv) Name and quantity of material(s) involved;
 - (v) The extent of injuries, if any;
 - (vi) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
 - (vii) Estimated quantity and disposition of recovered material that resulted from the incident.
 - (c) A written submission shall also be provided within five (5) days of the time UVM becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Secretary may waive the five-day written notice requirement in favor of a written report within fifteen days.

- 6.6 If a significant discrepancy in a manifest is discovered, UVM must attempt to reconcile the discrepancy. If not resolved within fifteen days, UVM must submit a letter report, including a copy of the manifest, to the Director.
- 6.7 An unmanifested waste report must be submitted to the Director within 15 days of receipt of unmanifested waste.
- 6.8 A biennial report must be submitted covering facility activities during the previous odd numbered calendar years. The biennial report shall be submitted electronically to EPA's RCRAinfo database.
- 6.9 UVM shall report all instances of noncompliance not reported under **Conditions 6.3, 6.4, and 6.5**, at the time monitoring reports are submitted. The reports shall contain the information listed in **Condition 6.5**.
- 6.10 Where UVM becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

Section 7: Waste Transport

- 7.1 UVM shall comply with the manifest requirements of **VHWMR Subchapter 7**.
- 7.2 Any hazardous waste removed from the facility shall be transported by a Vermont-permitted hazardous waste transporter, in accordance with **10 V.S.A. § 6607a** and the VHWMR, to a designated facility.
- 7.3 UVM shall not accept any shipment of hazardous waste which is not accompanied by a manifest, unless the waste is generated by a very small quantity generator who is exempt from the manifest requirements pursuant to **VHWMR § 7-306(c)(3)**.
- 7.4 UVM shall notify the Director and the EPA RCRA Headquarters Import/Export Coordinator, in writing, at least 60-days in advance of the date. UVM expects to receive hazardous waste subject to **40 CFR §§ 262.80 through 262.84 (Subpart H)** from a non-U.S. source, as required by **40 CFR § 264.12(a)** and **VHWMR § 7-109(b)(5)**. Notice of subsequent shipments of the same waste from the same foreign source in the same calendar year is not required.

Section 8: Personnel Training

- 8.1 All facility personnel involved in the handling of hazardous waste shall successfully complete a program of classroom instruction or on-the-job training that prepares them to perform their hazardous waste management duties. This introductory training shall be conducted in accordance with the Training Plan contained in **Appendix H**.

- 8.2 All facility personnel shall complete their introductory training within six (6) months after the date of their employment at the facility. An employee may not work in an unsupervised position until completing the introductory training program.
- 8.3 All facility personnel involved in the handling of hazardous waste shall take part in an annual training program which includes a review of the introductory training program. This annual training shall be conducted in accordance with the Training Plan contained in **Appendix H**.

Section 9: Facility Closure

- 9.1 UVM shall close the facility in a manner that eliminates threats to human health or the environment due to the post-closure escape of a hazardous waste or its constituents, directly or through leachate or surface run-off, or the escape of waste decomposition products to the ground or surface waters or ambient air. At a minimum, closure shall be conducted in accordance with the Closure Plan contained in **Appendix K**. The Closure Plan shall be amended whenever changes in operations or facility design affect the plan or when there is a change in the expected year of closure.
- 9.2 UVM shall maintain a written estimate of the cost of closing the facility and shall amend that estimate whenever there is an amendment to the existing Closure Plan contained in **Appendix K**. Any amended closure cost estimate shall be equal to the cost of closing the facility at the point in the facility's operating life when the extent and manner of its operation would make closure the most expensive, as indicated in the Closure Plan.
- 9.3 UVM shall annually update the closure cost estimate for inflation according to applicable requirements of **40 CFR § 264.142(b)**. The initial closure cost estimate, and all subsequent closure cost estimates shall be recorded in the written facility operating record pursuant to **Condition 4.9(h)**.
- 9.4 UVM shall notify the Director in writing of its intent to close the facility at least six (6) months prior to the date on which it expects to begin final closure.
- 9.5 Within three (3) months after receiving the final volume of hazardous waste, UVM shall remove all waste from the facility in accordance with the Closure Plan contained in **Appendix K**. Within six (6) months after receiving the final volume of waste at the facility, UVM shall complete all closure activities in accordance with the Closure Plan.
- 9.6 Facility closure shall not be considered to have been completed until:
- (a) UVM and an independent Vermont-licensed professional engineer have provided the Director written certification that the closure has been completed in accordance with the provisions of the Closure Plan; and
 - (b) The Secretary has inspected the facility;

- (c) The Secretary has given written approval of the closure.

Section 10: Financial Requirements

- 10.1 UVM shall maintain liability coverage for claims arising from sudden accidental occurrences, which occur as a result of the operations of the facility, that cause injury to persons and property in an amount of at least one million dollars (\$1,000,000) per occurrence with an annual aggregate of at least two million dollars (\$2,000,000) until closure of the facility has been completed. This liability coverage must be equivalent to the coverage held by UVM at the time of issuance of this permit, as evidenced by the documents included in **Appendix K**.
- 10.2 UVM shall demonstrate liability coverage for claims arising from sudden accidental occurrences in the amount of at least \$1 million per occurrence, with an annual aggregate of at least \$2 million, exclusive of legal defense costs. This liability coverage shall be demonstrated using one of the financial assurance instruments specified in **40 CFR § 264.147(a)**. Documentation of proof of insurance shall be included in **Appendix K**.
- 10.3 UVM shall establish financial assurance as required by **40 CFR § 264.143**. Financial assurance shall be in at least the amount required by **Conditions 9.2 and 9.3**.
- 10.4 UVM shall demonstrate its capability to close the facility at any time by providing documentation of financial assurance in one of the instruments described by **40 CFR § 264.143** and in the format provided for in **40 CFR § 264.151** in at least the amount of the cost estimates required by **Condition 9.2 and 9.3**.
- 10.5 UVM shall maintain financial assurance for closure of the facility until closure has been certified in accordance with **40 CFR § 264.115** and the Director approves the release of the financial instrument in accordance with **40 CFR § 264.143(i)**.
- 10.6 Any changes in the financial assurance mechanism shall be approved by the Secretary.
- 10.7 UVM shall notify the Director by certified mail of the commencement of any voluntary or involuntary proceeding under the United States Bankruptcy Code (Title 11, U.S. Code), naming the owner or operator as debtor, within 10 days after commencement of the proceeding.
- 10.8 In the event of the bankruptcy of or suspension of issuing authority of the trust fund trustee or trustee institution issuing any surety bond, letter of credit or insurance policy required by this permit, UVM shall establish other financial assurance or liability coverage within 60 days after the event and in accordance with **Condition 10.6**.

Section 11: Corrective Action

- 11.1 If UVM determines that hazardous waste or hazardous materials have been released to the environment at the facility or that there is a likelihood of a release of hazardous waste or hazardous materials to the environment, then UVM shall immediately notify the Director of any such release and comply with the applicable requirements of **VHWMR § 7-105**.
- 11.2 In the event of a release at the facility, UVM shall report the release to the Director and conduct an assessment of the release in accordance with **VHWMR § 7-105**. Information submitted must be sufficient to determine whether further investigation is necessary.
- 11.3 Corrective action may be required beyond the facility's boundary if the Secretary determines that it is necessary to protect human health and the environment.

APPENDICES

APPENDIX A: RCRA Subtitle C Site Identification Form

APPENDIX B: Facility Description

APPENDIX C: Hazardous Waste Accepted

APPENDIX D: Source Generators

APPENDIX E: Container Management Plan

APPENDIX F: Security Plan

APPENDIX G: Contingency Plan

APPENDIX H: Training Plan

APPENDIX I: Waste Analysis Plan

APPENDIX J: Inspection Plan

APPENDIX K: Closure Plan

APPENDIX L: Corrective Action

APPENDIX M: Related Permits

HAZARDOUS WASTE FACILITY PERMIT

In compliance with the provisions of the Vermont Waste Management Act, as amended,
(10 V.S.A. Chapter 159)

**University of Vermont and State Agricultural College
Environmental Safety Facility
UVM BioResearch Complex
667 Spear Street
Burlington, Vermont 05405**

is authorized to operate a hazardous waste storage facility at the above location in accordance with the conditions and requirements set forth in this permit.

This permit shall become effective on the date of signing.

Signed this 29th day of September 2023

Jason Batchelder, Commissioner
Vermont Agency of Natural Resources

By:  _____

Matt Chapman, Division Director
Waste Management & Prevention Division
Vermont Department of Environmental Conservation
1 National Life Drive, Davis 1
Montpelier, Vermont 05620-3704

Appeals

Any person aggrieved by this certification or permit may appeal to the Superior Court – Environmental Division within 30 days of the issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules Environmental Court Proceedings. If this certification or permit relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. §248, any appeal must be filed within 30 days of the issuance with the Vermont Public Service Board in accordance with Board rules.