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AMES NATIONAL LABORATORY
Creating Materials & Energy Solutions

Annual Site Environmental Report

Calendar Year 2025

Iowa State University Ames, Iowa 50011-3400

Prepared for the U.S. Department of Energy

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1.0 EXECUTIVE SUMMARY

The Annual Site Environmental Report for CY2025 summarizes the performance of environmental programs at Ames National Laboratory (herein Ames Laboratory or the Laboratory), presents highlights of significant environmental activities, and confirms compliance with environmental regulations and requirements for calendar year 2025. This report is a working requirement of the Department of Energy (DOE) Order 231.1B, *Environment, Safety and Health Reporting*. It includes descriptions of the Laboratory's site, mission, the status of its compliance with applicable environmental regulations, planning and activities to maintain compliance, and a comprehensive review of its environmental protection, surveillance, and monitoring activities.

Ames National Laboratory is located on the campus of Iowa State University (ISU) and occupies 12 buildings owned by the DOE. See the Laboratory's webpage for location and Laboratory overview. The Laboratory also leases space in ISU-owned buildings.

In 2025, the Laboratory accumulated and disposed of hazardous waste under a U.S. Environmental Protection Agency (EPA) issued generator number. All waste was handled according to applicable EPA, State, and local regulations and DOE Orders. The Laboratory operates as a Small Quantity Generator (SQG) of hazardous waste.

There were no radiological air emissions or exposures to the public due to Laboratory activities in 2025. (See U.S. DOE Air Emissions Annual Report in Appendix A.) The Laboratory has an established Environmental Radiological Protection Program (Plan 10200.004) per DOE Order 458.1, *Radiation Protection of the Public and the Environment*, requirements. Plans, policies, and procedures are in place to protect the public and the environment against undue risk from radiation associated with DOE radiological activities.

As indicated in prior Site Environmental Reports, formal pollution prevention awareness, waste minimization, and recycling programs have been in practice since 1990, with improvements implemented most recently in 2017 with Iowa State University's shift toward single-stream recycling. Included in recycling efforts are items such as batteries, monitors, corrugated cardboard, lamps, miscellaneous electronic office equipment, mixed paper, newsprint, food/beverage containers, and laboratory glassware. Ames National Laboratory also recycles/reuses salvageable metal, used oil, and foamed polystyrene peanuts, and encourages chemical redistribution and sharing among research groups.

Ames National Laboratory reported its contractual performance to DOE-Ames Site Office (AMSO) through the Laboratory's Performance Evaluation Measurement Plan (PEMP), and a performance level of "A-" was achieved in 2025 for Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection.

As reported in Site Environmental Reports for prior years, the Laboratory's Environmental Management System (EMS) has been integrated into the Laboratory's Integrated Safety Management System (ISMS) since 2005. The integration of EMS into Laboratory business practices allows the Laboratory to systematically review, address, and respond to environmental impacts. Due to DOE Order 436.1A, *Departmental Sustainability*, being revoked on 1/30/2025, Ames National Laboratory has currently suspended the Laboratory's Environmental Management System Steering Committee (EMSSC). Although the committee is not meeting, the Laboratory still strives to meet required sustainability goals and support environmental compliance.

Goals for 2025 included continue upgrading heating, ventilation, and air conditioning (HVAC) systems in research buildings and expanding electronic recycling options to employees for privately owned discarded electronic items.

2.0 AMES NATIONAL LABORATORY INTEGRATED SAFETY MANAGEMENT SYSTEM STATEMENT OF COMMITMENT

From the Ames National Laboratory Integrated Safety Management System (ISMS) Plan (10200.016):

> "*Ames Laboratory is dedicated to protecting the safety and health of each Laboratory employee. The Laboratory is committed to preventing accidental loss of resources and assets and protecting the public and the environment through the prevention of pollution, property loss, or damage to the environment. Therefore, it is our goal to reduce to the greatest extent possible foreseeable hazards and maintain a safe and healthful workplace by hiring competent personnel, providing necessary training, following safe work practices, and encouraging an emphasis on continuous improvement. In addition, compliance with applicable Laboratory Contract requirements, Department of Energy Orders, and regulatory standards is a prerequisite for conducting Laboratory business and the responsibility of each employee.*
>
> *To accomplish these goals, the Laboratory has incorporated the principles of Integrated Safety Management (ISM) and the practices of an Environmental Management System (EMS) into an Integrated Safety Management System (ISMS). Our ISMS provides mechanisms to ensure that we incorporate safety and environmental management into all aspects of our work, from planning to completion.*
>
> *Every Ames Laboratory employee will participate in ISMS by complying with the Laboratory's environmental, safety, and health requirements. Each level of line management has the responsibility to consider the impacts of their activities on the environment and workplace and to support the performance and continuous improvement of effective safety and environmental practices, such as pollution prevention. This team effort is necessary to achieve a safe and productive research laboratory*."
>
> Karl Mueller
> Director, Ames National Laboratory

3.0 2025 AMES LABORATORY SITE ENVIRONMENTAL REPORT FEEDBACK FORM

The feedback questions below are provided to solicit public input on the development and improvement of future Site Environmental Reports. Public input is encouraged and appreciated. Copy and attach additional pages as needed or send comments to safety@ameslab.gov.

> Return to: Ames National Laboratory
> Environment, Safety, & Health
> ATTN: Don Fortmann
> 2408 Pammel Drive, Iowa State University Ames, IA 50011-3400

- What prompted your interest in environmental activities at Ames National Laboratory?
- In what ways can this report document and/or format be improved?
- Do you have any questions on specific items or issues in this report? Do you have any other comments?

4.0 INTRODUCTION

4.1. Site Location

Ames Laboratory is a U.S. DOE facility located on the campus of Iowa State University (ISU) in Ames, Iowa. See the Laboratory's webpage for locations and Laboratory overview. Ames Laboratory is a government-owned, contractor-operated (GOCO) facility, managed and operated by ISU as the Laboratory's contractor. The Technical and Administrative Services Facility (TASF) houses most of the Laboratory's management offices. Buildings

owned by the DOE are listed in the table below.

BUILDING	GROSS SQUARE FEET
Spedding Hall	107,630
Metals Development Building	69,663
Wilhelm Hall	56,541
Technical and Administrative Support Facility (TASF)	46,991
Campus Warehouse Building	16,506
Sensitive Instrument Facility (SIF)	13,304
Mechanical Maintenance Building	8,540
Paint and Air Conditioning Shops	4,998
Construction Storage Shed	4,440
Maintenance Shop Building	7,503
Records Storage	1,689
Storage Shed 2	1,702
Total DOE Owned	**339,507**

In addition to the buildings owned by the DOE, Ames National Laboratory also leased space from ISU in 2025.

The City of Ames, Iowa, surrounds the ISU main campus. In 2025, the population of Ames was estimated at 68,220, which includes the ISU student population of approximately 31,000. Ames is in Story County, which in 2025 has a population estimated at 101,291.

4.2. General Environmental Setting

The climate is temperate continental and is subject to wide temperature and precipitation ranges throughout the year. Mean monthly temperature varies from an average low of negative 11.3°C (12°F) in January to an average high of 29.1°C (84°F) in July. Average rainfall equivalent precipitation varies from 1.8 centimeters (0.7 inches) in January to 12.6 centimeters (4.96 inches) in June.

The region's topography is gently rolling with a slight overall negative gradient to the southeast. Under the shallow topsoil, the soil is glacial till with a depth of approximately 19.8 meters (65 feet). This material is predominantly underlain by limestone bedrock. In the central campus area, the depth to first groundwater is approximately 3.0 meters (10 feet). Surface run-off flows into Ioway Creek, a tributary of the South Skunk River. The streams have a combined average daily flow of approximately 644 million liters (170 million gallons).

4.3. Vision, Mission, Values, and Goals

Our Vision: Lead the nation in translating foundational science for energy and chemical conversion into critical technology innovation

Our Mission: Deliver critical materials and chemical solutions to the nation

Ames National Laboratory creates materials, inspires minds to solve problems, and addresses global challenges. We conduct fundamental and applied research that helps the world to better understand fundamentals of chemistry, physics, and materials science. We translate that knowledge into new and unique materials, processes, and technologies

that advances the nation's energy and economic competitiveness and enhances national security.

Our Values:

Ames National Laboratory's values enable us to deliver critical materials solutions to the nation. Our values guide our endeavors, interactions, and decisions, and position the Laboratory for success now and in the future.

- Creativity: We imagine. We innovate. We discover. We pursue excellence through imaginative and innovative thinking to explore unique ideas.
- Collaboration: We share knowledge. We foster relationships. We work together. We are successful when we communicate clearly, share our expertise, mentor others, and address challenges as a team.
- Community: We care. We're respectful. Everyone belongs. We execute our mission by fostering an environment of openness, growth, and trust. We value our different backgrounds and achieve more by uniting our world views, experiences, and areas of expertise. We believe that each person belongs fully, as an equal.

Our Goals:

- Discovery for a Sustainable Future: Critical materials and upcycling science
- Making Every Atom Count: Atomistic and molecular design and control for energy and chemical conversions
- Innovating for Science and Industry: Novel synthesis to manufacturing
- Transitioning Fundamental Science: Chemistry and materials for clean energy technologies
- Enabling the Mission: Develop people; modernize infrastructure; and drive process efficiency with integrated business systems

The Laboratory approaches all its operations with the safety and health of all workers as a constant objective and with genuine concern for the environment and the public. Ames National Laboratory does not conduct classified research.

4.4. Primary Operations and Activities

Ames National Laboratory is globally recognized for its leading collaborative research in the theory, design, synthesis, processing, and characterization of innovative, energy-relevant materials. The Laboratory has established exceptional strengths and made major contributions in the synthesis and science of magnetic, electronic, quantum, catalytic, functional and critical materials, using core strengths in rare earths but also the full palette of elements provided by the periodic table. These strengths are the cornerstone of the Laboratory's rich and world-leading materials research portfolio, which lies at the frontier of some of the most challenging problems in matter and energy.

Ames National Laboratory is internationally recognized for its ability to synthesize high-quality samples of unusual materials. Ames National Laboratory's Materials Preparation Center (MPC) prepares, purifies, fabricates, and characterizes materials in support of research and development programs throughout the world.

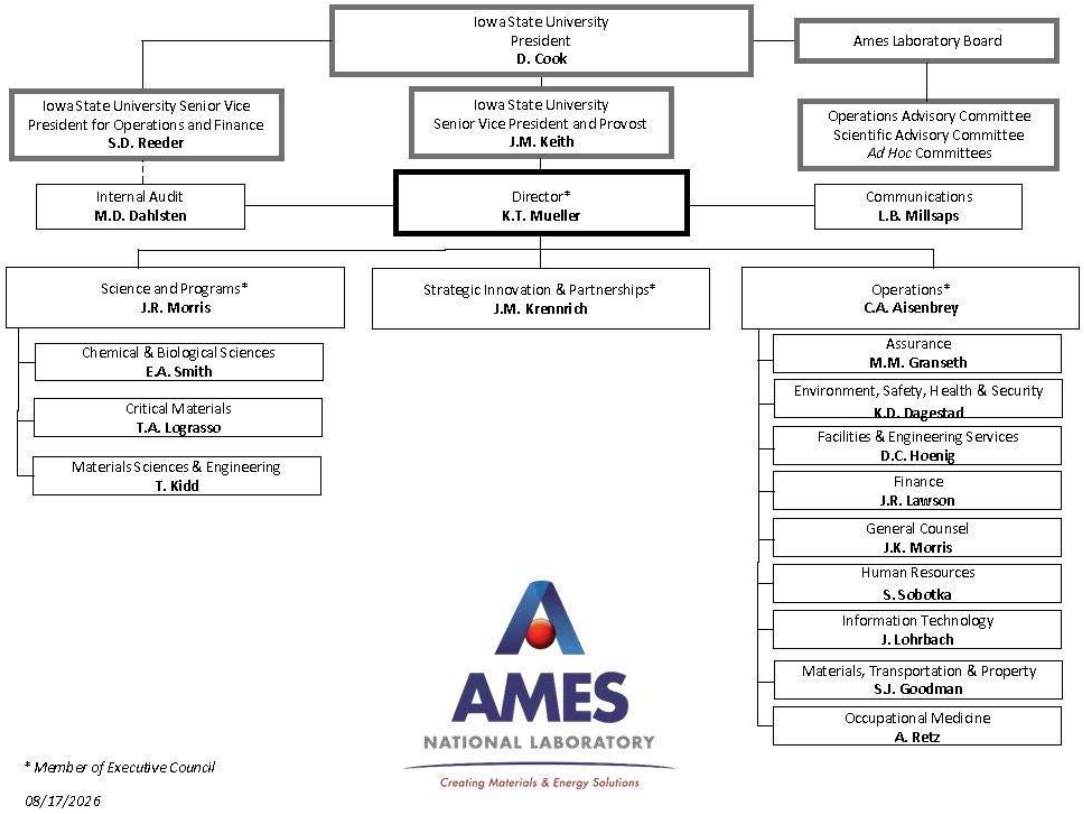
Ames National Laboratory's scientists and engineers have repeatedly developed unique instrumentation to answer compelling scientific questions and contributed pioneering roles in the creation of inductively coupled mass spectrometry and multiplexed capillary electrophoresis. The Laboratory has built on these breakthroughs by advancing solid-state nuclear magnetic resonance, laser angle resolved photoelectron emission spectroscopy, terahertz spectroscopy, and establishing the Sensitive Instrument Facility

to provide a platform for future science-driven instrumentation development. Ames Laboratory continues its remarkable record of transitioning basic science to applied science to technology commercialization through its leadership in addressing national challenges through its Critical Materials Innovation Hub, advanced powder synthesis, and acid-free dissolution.

4.5. Organization and Administration

ISU operates Ames National Laboratory for the United States Government under Contract Number DE-AC02-07CH11358 with the U.S. DOE. The DOE Office of Science, through the AMSO, administers the contract. In 2025, there were 407 people involved with the Laboratory either as full- or part-time employees and 122 contributor (non-payroll) employees. See Organizational Chart, Figure 4.5-1.

Figure 4.5-1 Organizational Chart for 2025



5.0 COMPLIANCE STATUS

There were no compliance issues in 2025.

5.1. Environmental Restoration and Waste Management

5.1.1. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

There were no sites regulated under CERCLA. Proper public comment periods have been observed for former site restoration activities. The Community Advisory Group (CAG), formed in May 1994, was and is the primary vehicle for public input in these activities. The CAG has been inactive over the past several years. The most recent interaction with CAG members includes a letter regarding the Energy Employees Occupational Illness Compensation Program Act (EEOICPA) and a letter regarding the Laboratory's support of the Special Exposure Cohort Petition for employees who worked at the Laboratory from 1942 to the present. EEOICPA's mission is to deliver benefits to

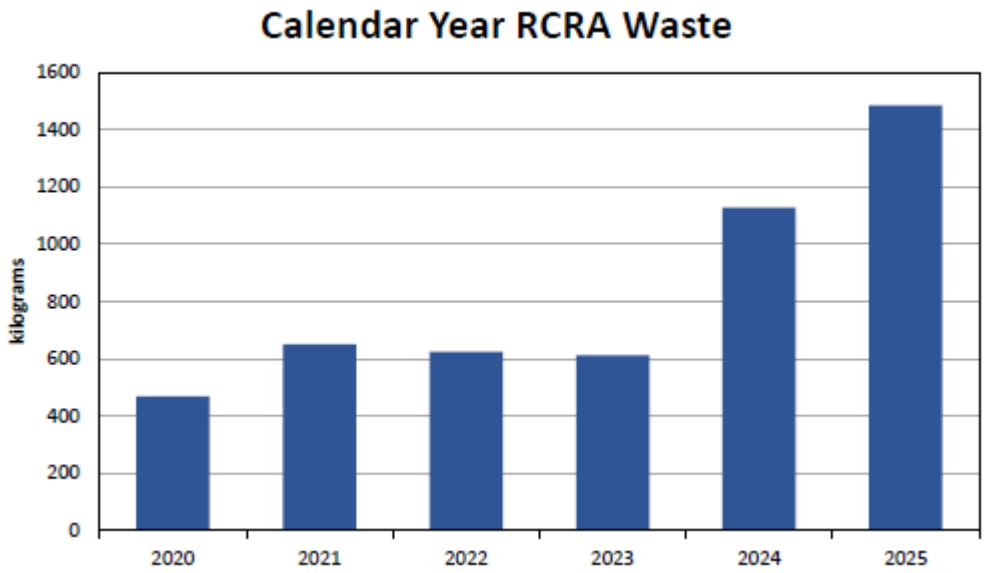
eligible employees and former employees of the DOE, its contractors and subcontractors, or to certain survivors of such individuals, as provided in the EEOICPA.

5.1.2. *Resource Conservation and Recovery Act (RCRA)*

All waste generated by Ames National Laboratory under the contract with DOE is DOE waste. In 2025, the Laboratory had one active RCRA generator identification number and two inactive generator identification numbers (see the summary table 6.4-1).

In the calendar year 2025, 1486 kg of hazardous waste was properly disposed of through a contracted vendor from the main campus EPA ID. Figure 5.1.2-1 shows the RCRA hazardous waste generation over the past six years.

Figure 5.1.2-1 RCRA Waste Generation



The RCRA generator identification numbers associated with the former Waste Handling Facility (WHF) and the former Chemical Disposal Site (CDS) have been designated by EPA as “non-generator” sites because waste is no longer generated at these sites.

Ames National Laboratory is registered with the EPA as a Small Quantity Generator (SQG) of Hazardous Waste. An SQG is defined as generating 100 to 1000 kg/month of non-acutely hazardous waste and/or </= 1.0 kg/month of acutely hazardous waste. The Sensitive Instrument Facility, due to its location and generation rate, is categorized as a Very Small Quantity Generator (VSQG). VSQGs are defined as generating less than 100kg/month of non- acutely hazardous waste and less than 1kg/month of acutely hazardous waste.

Prior to 2006, the Laboratory was a Large Quantity Generator (LQG) and was required to submit a biennial report (aka: *Hazardous Waste Report)* of RCRA waste removed from the facility. The report was last completed and submitted to the EPA in January 2006 for the 2005 calendar year.

The Laboratory generates small amounts of radioactive low-level waste (LLW) from legacy contaminated buildings during renovation activities or from contaminated equipment. Approximately 2-3 cubic meters of LLW are generated each year. There were no LLW shipments in 2025.

There were two shipments of RCRA hazardous waste in 2025 from the main campus SQG and one from the Sensitive Instrument Facility VSQG. The RCRA waste was disposed of at an out-of-state EPA permitted facility through a contracted vendor.

Sanitary waste is disposed of through the University's sanitary sewer system, which is treated at the City of Ames' wastewater treatment plant. Solid waste is sent to the City of Ames Resource Recovery Plant for processing and energy recovery.

The Laboratory had no underground storage tanks (USTs) in 2025. One aboveground, double walled diesel tank with interstitial leak detection is in place for two backup generators. There were no leaks or container integrity problems noted in the tank's monthly inspections in 2025.

5.1.3. Federal Facilities Compliance Act (FFCA)

The FFCA is part of 42 USC 6901 and amends a part of RCRA. FFCA requires the preparation of site treatment plans for the handling of mixed waste. EPA approved the Ames Laboratory Site Treatment Plan (STP) in January 1996.

Any newly generated mixed waste is handled and disposed of according to EPA, State and local regulations, and DOE Orders.

5.1.4. National Environmental Policy Act (NEPA)

All research activities in 2025 were covered under the Laboratory's site-wide Categorical Exclusion (CX) for "Bench Scale Research Projects and Conventional Operations." The original exclusion was submitted to DOE-AMSO and was valid until 7/25/23. The CX for "Bench Scale Research Projects and Conventional Operations" was reviewed on 5/1/2023 and determined current for all operations at the Laboratory. A new submittal was not necessary at this time. Due to the Ames Infrastructure Modernization (AIM) project, a new Generic CX: Operation and Maintenance of the Ames National Laboratory was submitted and approved 9/3/2024. Categorial Exclusions (CXs) will be reviewed again in 5 years (2028 and 2029). These "site-wide" CXs eliminate unnecessary documentation but still uphold the integrity of NEPA. Categorical exclusions are classes of actions that DOE (10 CFR 1021 Subpart D, App. B) has determined do not individually or cumulatively have a significant effect on the environment and do not require the preparation of either an environmental assessment or an environmental impact statement.

5.1.5. Toxic Substances Control Act (TSCA)

The Laboratory complies with the State of Iowa Solid Waste Disposal Rule #102.14 and 40 CFR 61, Subpart M (asbestos NESHAP) when disposing of Asbestos-Containing Material (ACM). ACM quantities are dependent upon the amount of renovation activities involving removal of floor tile, fume hoods, and pipe insulation. Figure 5.1.5-1 shows ACM quantities shipped for disposal over the past six years.

Figure 5.1.5-1 Asbestos-Containing Material Disposal

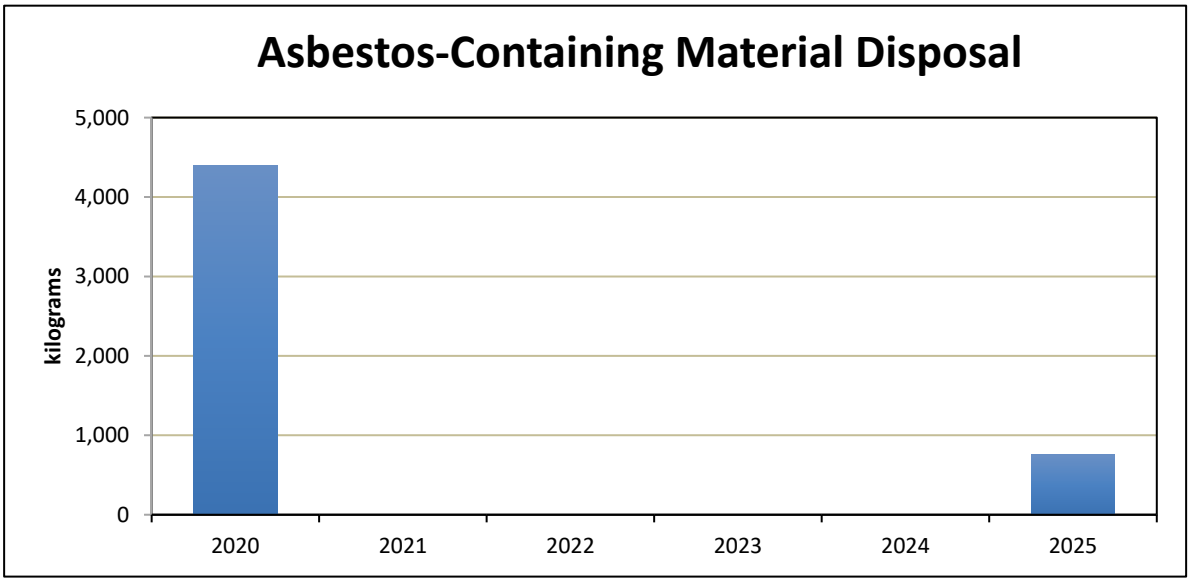
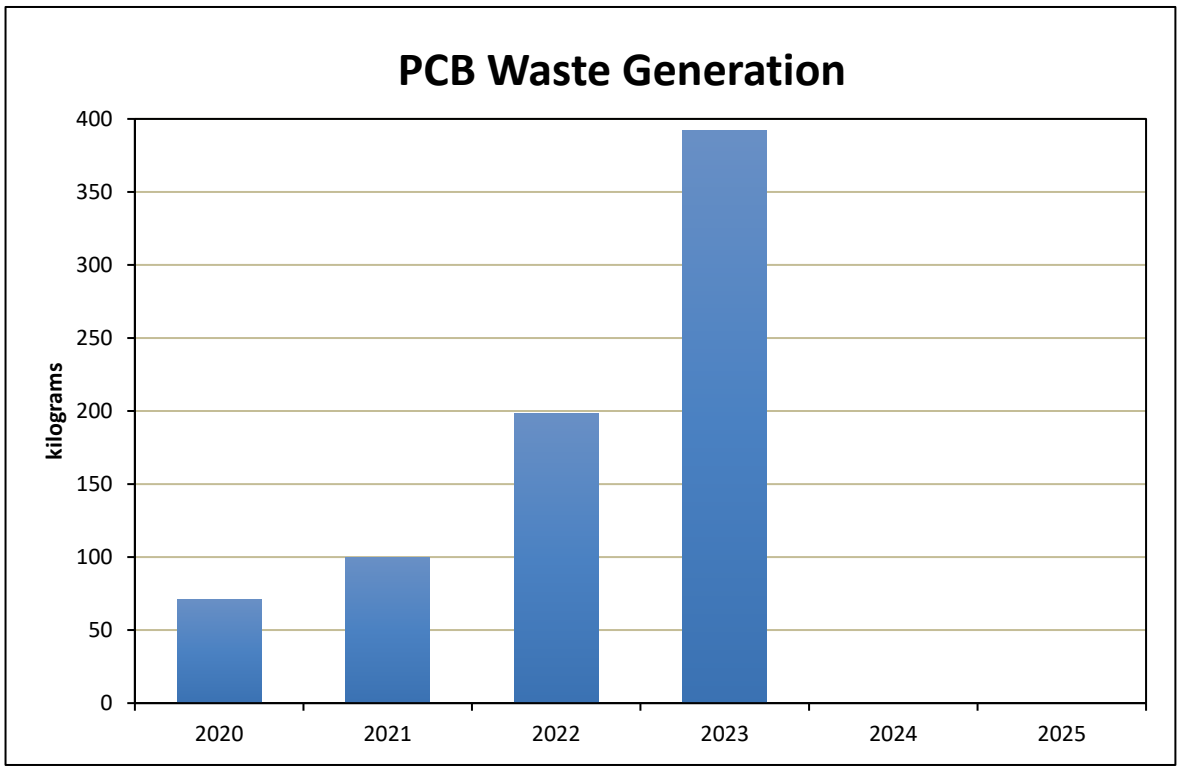


Figure 5.1.5-2 shows amounts of polychlorinated biphenyl (PCB) waste over the past six years. Typically, the Laboratory's PCB waste consists of light ballasts, although in 2023 totals include PCB oil and PCB contaminated debris.

Figure 5.1.5-2 PCB Waste Generation



5.1.6. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

Ames National Laboratory does not purchase or use pesticides regulated by FIFRA. Pesticide spraying is done in portions of buildings by a licensed applicator using approved chemicals.

5.2. Radiation Protection

5.2.1. DOE Order 458.1, Radiation Protection of the Public and the Environment

Ames National Laboratory has prepared the Environmental Radiation Protection Plan (Plan 10200.041) according to the requirements of DOE O 458.1. The plan demonstrates that the Laboratory has plans, policies and procedures in place to protect the public and the environment against undue risk from radiation associated with DOE radiological activities. There were no detectable or reportable radiological releases to the public or the environment in 2025 (See U.S. Department of Energy Air Emissions Annual Report, Calendar Year 2025 in Appendix A).

5.2.2. DOE Order 435.1, Radioactive Waste Management

Most of the Laboratory's radioactive waste is generated through renovation activities that occur in DOE buildings. These buildings have legacy contamination from past activities. All waste generated is low-level waste. The Laboratory has written procedures to manage these radioactive materials.

5.3. Air Quality and Protection

5.3.1. Clean Air Act (CAA)

U.S. EPA Region VII has delegated CAA authority to the State of Iowa Department of Natural Resources (IDNR). The IDNR issued an official ruling for Ames National Laboratory on July 18, 1994, stating that no permitting and no monitoring is required for the Laboratory's fume hoods.

The Laboratory maintains one construction air permit for the paint booth which was issued by the IDNR in December 1996. The construction air permit for the sand blaster was revoked on 1/15/2025 due to removal of the equipment. The Laboratory also has nine exempt air emission sources (See Section 6.4 for a summary of permits).

5.3.2. National Emission Standards for Hazardous Air Pollutants (NESHAPS)

Asbestos containing materials (ACM) are removed and handled according to applicable asbestos NESHAP regulations (40 CFR 61 subpart M). Annually, notifications are sent to the IDNR for estimated small abatement and demolition projects in association with routine maintenance and revisions are submitted when necessary.

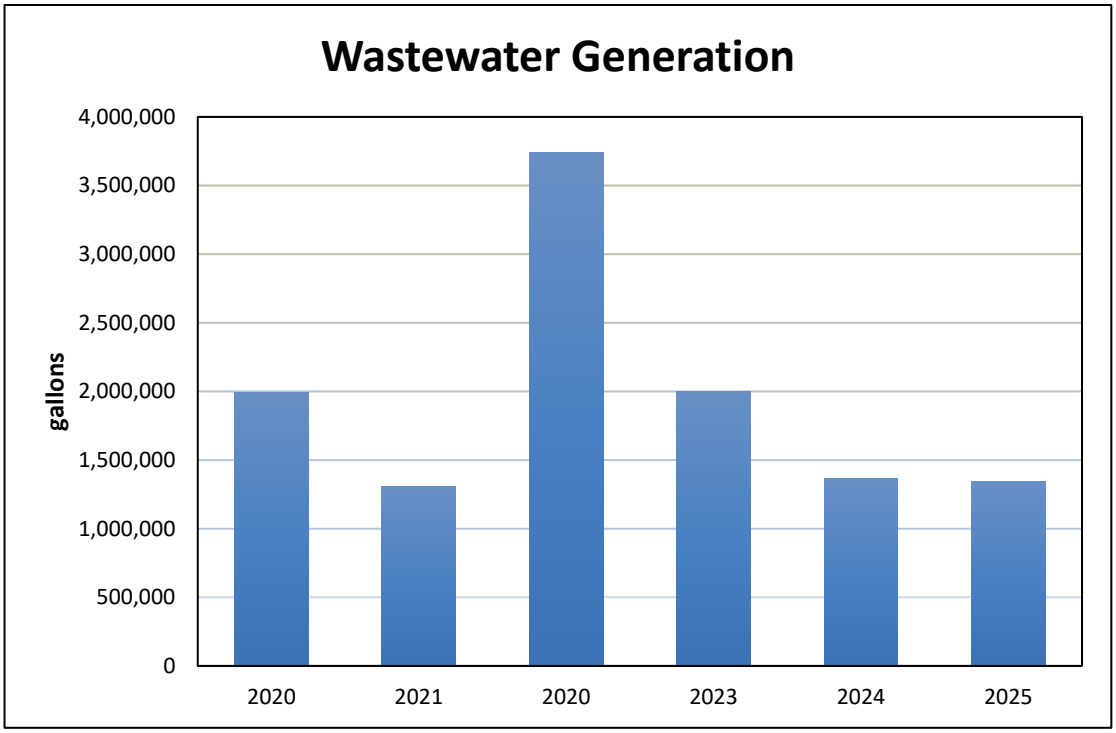
The Laboratory followed all CAA requirements, including the NESHAP regulations for radionuclide emissions from DOE facilities. The Laboratory used small quantities of chemicals and radioactive materials for laboratory bench-top research and development activities in 2025. The Laboratory did not have any air emissions in 2025 that could have exposed the public to radioactivity. (See correspondences in Appendix A.)

5.4. Water Quality and Protection

5.4.1. Clean Water Act (CWA)

Ames National Laboratory does not have any point sources of effluents requiring National Pollutant Discharge Elimination System (NPDES) permits. The Laboratory discharges wastewater to the ISU sanitary sewer system, which discharges into the City of Ames sanitary sewer system. The City of Ames has an NPDES permit. The City of Ames has an agreement for wastewater pre-treatment with ISU, which includes Ames National Laboratory's wastewater. Both the City of Ames and ISU sampled the University's wastewater effluent using EPA protocols and methods in 2025 as part of this agreement. The Laboratory discharged 1,342,917 gallons of wastewater to ISU's sanitary sewer system in 2025. Wastewater trends are summarized in Figure 5.4.1-1.

Figure 5.4.1-1 Wastewater Generation



Under 40 CFR Part 112, the Laboratory is required to have a Spill Prevention, Control, and Countermeasure (SPCC) plan as the Laboratory's storage, 2,670 gallons, exceeds the 1,320 gallon storage capacity threshold for oil storage. The Laboratory's SPCC Plan is part of ISU's overall plan. The SPCC Plan documents how the Laboratory prevents potential oil spills/releases from entering navigable waters and the environment. Preventions include, but are not limited to, monthly inspections of qualified oil-filled equipment and training for applicable employees.

5.4.2. *Stormwater Management*

DOE buildings are on land leased from ISU, and the ISU Municipal Separate Storm Sewer System (MS4) permit covers Ames National Laboratory activities.

5.4.3. *Safe Drinking Water Act (SDWA)*

Drinking water for the Laboratory is supplied by the City of Ames public water system through the University's water mains. The Ames public water system is tested by the city to verify SDWA standards are being met. The Laboratory used 1,342,917 gallons of potable water in 2025.

Ames National Laboratory drinking fountains are sampled for lead by Ames Laboratory Facilities and Engineering Services. Fountains were sampled for lead in 2023. Historical data shows no evidence of lead in drinking water. Drinking water is sampled every three years. Results are summarized in Table 5.4.3-1.

Table 5.4.3-1 Drinking Fountain Analysis for Lead

Building Location	2008 (mg/L)	2011 (mg/L)	2014 (mg/L)	2017 (mg/L)	2020 (mg/L)	2023 (mg/L)
Spedding Hall, ground floor east hallway		<0.005			0.0015	<0.001
Spedding Hall, ground floor west hallway	<0.001		<0.0005	<0.0025		
Wilhelm Hall, 3rd floor east hallway	<0.001	<0.002	<0.001	<0.0025	0.0020	<0.001
Metals Development, room 158	<0.001	<0.0005	<0.0005	<0.0025	<0.0004	<0.001

*EPA action levels for lead are 0.015 mg/L.

5.5. Other Environmental Statutes

5.5.1. Endangered Species Act (ESA)

The Indiana Bat is a state and federally listed endangered species found throughout Story County, including on or near Ames controlled areas; however, this is not a critical habitat.

5.5.2. Invasive Species

Several invasive species can be found in Iowa. The Laboratory leases the land on which DOE buildings are located from ISU, so there is no habitat within the Laboratory's purview for invasive species to be present.

5.5.3. National Historic Preservation Act (NHPA)

Nine structures on the ISU campus are on the state historic register. None are associated with Ames National Laboratory activities.

DOE-owned buildings at the Ames National Laboratory are on land leased to DOE by ISU. A detailed building survey (Historical & Architectural Survey & Evaluation) was conducted in June 2009 as required by the National Historic Preservation Act, Section 110. The building survey was conducted by a contracted architectural historian. The *Historical & Architectural Survey & Evaluation* report indicates that three Ames Laboratory buildings could be nominated to the National Historic Registry. DOE, in consultation with the State Historical Preservation Officer (SHPO), determines eligibility for listing on the National Register for Historical Places. Currently the DOE is not pursuing nomination for these three buildings (Spedding Hall, Wilhelm Hall, and Metals Development Building). However, any adverse impact on an eligible building would be mitigated in consultation with the SHPO. The Ames National Laboratory procedure for identifying hazards prior to disposition of excess materials requires that excess items be evaluated for historical significance.

5.5.4. Migratory Bird Treaty Act (MBTA)

There are over 200 bird species that may migrate through Ames, IA. However, there are no activities at Ames National Laboratory that impact migratory birds.

5.6. Sustainability

Ames National Laboratory's commitment to meet the DOE sustainability goals through projects, tasks, and activities begins with the integration of the Environmental Management System (EMS) into the Integrated Safety Management System (ISMS) to

ensure the implementation of safety and environmental management in all aspects of Laboratory work, from planning to completion.

In the past, Ames National Laboratory has used its EMS and the associated Environmental Management System Steering Committee (EMSSC) as a vehicle to provide awareness of the objectives and targets reported in its Site Sustainability Plan. Due to DOE Order 436.1A (Departmental Sustainability) being revoked on 1/30/2025, Ames National Laboratory has currently suspended the Laboratory's EMSSC. Although the committee is not meeting, the Laboratory still strives to meet required sustainability goals and support environmental compliance.

The age of the Laboratory's facilities makes it challenging to achieve energy efficiency in the existing facilities. However, the Laboratory's success in purchasing renewable energy in the form of wind power has been noted by the Sustainability Performance Office: "Ames has made impressive strides in this goal area, and the SPO would like to share these successes." In FY2016, National Renewable Energy Laboratory (NREL) screened Ames National Laboratory for cost-effective renewable energy opportunities that would lower the site's 25-year lifecycle cost of energy. This screening found that while there is an incentive for Photovoltaic (PV) use, "the current low cost of utility electricity and average solar resource makes it difficult for PV to be cost- competitive". However, due to recent Federal initiatives, the Laboratory is exploring opportunities for onsite carbon free electricity generation. Ames has participated in the DOE's Energy Storage Initiative program in FY2024 to investigate the impact on energy storage potential for Laboratory operations. Energy intensity increased by 9% in FY2021, due to a return to normal operations. Ames Laboratory has also participated in two rounds of Assisting Federal Facilities with Energy Conservation (AFFECT) grant funding proposals that target projects attempting net zero operations.

Ames National Laboratory has met both Fleet Reduction Goals by reducing its petroleum consumption and increasing its alternative fuel consumption.

Cool roof area is up from 13% to 30.6% due to TASF roof replacement in FY2016 and cool roof installation on the SIF in FY2015. The Ames Infrastructure Modernization (AIM) project is planning on replacing the built-up roofs on Spedding Hall, Wilhelm Hall, and Metals Development Building with similar style cool roofs. Construction for this project began in FY2025.

FY2022 evaluation of the updated 2020 High Performance Sustainable Building (HPSB) Guiding Principles has brought Ames National Laboratory into compliance with the Federal standard. The newest building, the Sensitive Instrument Facility which the Laboratory took possession of in FY2016, meets the requirements for Leadership in Energy and Environmental Design (LEED) Certification. The Laboratory continues to implement the Guiding Principles in all major building infrastructure improvements where it is economically feasible. Further improvements in sub-metering during FY2023 have the Laboratory in compliance with DOE's metering plan with all facilities metered on a building level, however further investments are required to meet 100% smart metering compliance

5.7. Superfund Amendments and Reauthorization Act (SARA) III and Emergency Planning and Community Right-to-Know Act (EPCRA)

5.7.1. Status of Reporting

SARA Title III created the Emergency Planning & Community Right-to-Know Act (EPCRA), a statue designed to improve community access to information about community hazards and to facilitate the development of chemical emergency response plans by state/tribe and local governments. The Laboratory was required to report sulfuric acid from lead acid batteries used in fork trucks and UPSs due to quantities exceeding the 500-pound threshold

reporting limit, under EPCRA Section 12 Laboratory research chemicals are exempt from EPCRA Sections 302-303, 311-312 and 313. The Laboratory did not store any research related chemicals in excess or near EPCRA threshold limits in 2025. The Laboratory maintains memorandum of understanding (MOUs) with the Iowa State University Department of Public Safety and the City of Ames Fire Department for emergency and hazardous material situations. Copies of MOUs are included in the Ames National Laboratory Emergency Plan (Plan 46300.001). The Laboratory was not required to report under EPCRA Section 304 as there were no reportable releases in 2025.

Releases to the environment are reported to the Iowa Department of Natural Resources (IDNR) in accordance with the IAC, Rule 567, Chapter 131. Spills/releases are cleaned up in accordance with the IAC, Rule 567, Chapter 133. There is no minimum reportable quantity under Chapter 131. There were no reportable spills or releases in 2025.

Reportable spills, releases and occurrences are entered in DOE's Occurrence Reporting and Processing System.

Table 5.7.1-1 Status of EPCRA Reporting

EPCRA Section	Description of Reporting	Status
EPCRA Sec. 302-303	Planning Notification	Not Required
EPCRA Sec. 304	EHS Release Notification	Not Required
EPCRA Sec. 311-312	MSDS/Chemical Inventory	Required for sulfuric acid in batteries Voluntarily reporting for research chemicals
EPCRA Sec. 313	TRI Reporting	Not Required

5.7.2. E.O. 11988, Floodplain Management

All Laboratory facilities are well outside the 100-year flood line as mapped by the U.S. Geological Survey (USGS) and the Iowa Geological Survey Bureau (GSB). The Laboratory is in full compliance with 10 CFR 1022.

5.7.3. E.O. 11990, Protection of Wetlands

No wetlands are impacted by Ames National Laboratory activities. The Laboratory is in full compliance with 10 CFR 1022.

6.0 OTHER ENVIRONMENTAL ISSUES AND ACCOMPLISHMENTS

6.1. Assessments

On June 10, 2019, an EPA contractor conducted a RCRA Compliance Inspection. During the inspection two Notice of Preliminary Findings (NOPF) were noted.

NOFP Item 1: A container in the satellite accumulation area was labeled, but the checkbox indicating hazardous waste was not clearly marked. This NOPF was corrected immediately.

NOPF Item 2: Several containers in the Central Accumulation area were not dated. This NOPF was corrected immediately.

A letter to the EPA Administrator was sent with additional corrective actions for these two NOFPs. The EPA responded with a letter (see Appendix C for EPA Correspondence) that the Laboratory's corrective actions adequately addressed the violations and that no further submittals were required.

6.1.1. Green and Sustainable Remediation (GSR)

Ames does not currently manage any RCRA or CERCLA remediation sites.

6.1.2. *Site Resilience*

Ames' strategy to enhance resilience is outlined in policies, plans, and procedures, and is evaluated in accordance with potential risks during document review cycles, strategic planning efforts, and as a part of annual contract deliverable submissions. These documents address impacts to the Laboratory from any number of potential natural or man-made events or incidents. A summary of the documents related to organizational resilience is included below.

- All Hazards Planning Basis (AHPB) Report 46300.001: This document fulfills the requirement of DOE O 151.1D, *Comprehensive Emergency Management System*, to identify conditions to be addressed by a comprehensive emergency management program. The AHPB must identify all hazards that are applicable to, or may impact, facility operations and at Ames, this covers the area and buildings, describes potential health, safety, and environmental impacts, and clarifies that Ames National Laboratory is a Core Program. The All Hazards Survey (AHS) addresses the following: natural hazards, technological hazards, human-caused incidents, Threat/Hazard Identification and Risk Assessment (THIRA), and a hazardous materials screening process.
- Information Systems Security Plan (ISSP) 50000.002: This plan documents the administrative, technical, and operational protection measures and procedures of unclassified cyber security controls and serves as the single resource document defining Ames' information and information systems and their related security.
- Ames National Laboratory Strategic Plan 2023-2027: Areas within the plan that will directly enhance organizational resilience are interconnected within Goal 5: Enabling the Mission: Develop People; Modernize Infrastructure; and Drive Process Efficiency with Integrated Business Systems
- Contingency Procedure for Business and Network Infrastructure/Services 48400.043: This procedure enables the Laboratory to recover as quickly and effectively as possible from an unforeseen disaster or emergency that interrupts normal business operations.
- Continuity of Operations Plan 40000.007: This plan provides an overview of Ames National Laboratory's program to address continuity events described as "an emergency caused by a natural disaster, accident, military or terrorist attack, technological emergency, or infectious disease/pandemic influenza threat which impacts or has the potential to impact the performance of essential functions.
- Emergency Plan 46300.001: This plan establishes and maintains a documented emergency management program that implements the requirements of Federal, State, and local laws, regulations, and ordinances for fundamental worker safety. This plan is supported by the Ames National Laboratory Emergency Plan Implementation Procedure, Communications Emergency Procedure, Waste Management Contingency Plan and Procedure, and Fire Safety Baseline Needs Assessment.
- Mission Readiness System Description Plan 40000.008: The mission readiness process is made up of the following summarized elements:
    - Condition Assessment Survey: A periodic inspection of the facilities and infrastructure.
    - Safety Walk-through Programs: All Ames space is inspected throughout the year.
    - Assessments and Reviews: Internal and external assessments are performed in

variety of topical areas each year.

- Maintenance Program: Provides the planning and performance of cost-effective maintenance, upkeep, and repair of DOE property.
- Annual Mission Readiness Interviews: Key personnel are interviewed to identify gaps in facility capability.
- Preparation of the Annual Laboratory Plan: Identify gaps between facility capability and mission requirements, develop and prioritize projects or strategies to address the gaps.
- Field Budget Process: Prioritized projects are incorporated into the Field Budget Submission.
- Maintenance and General Services Budget Process: Addresses core and recurring activities, such as corrective and preventative maintenance, as well as individual expensed projects.
- Plan Execution: When GPP funding is obtained, and overhead budgets are approved project plans are executed.
- Self-Assessment and Reporting: The Mission Readiness team meets annually to assess for improvements and reporting is annual through the Performance Evaluation and Measurement Plan.

- Site Security Plan 10200.007: The Site Security Plan describes the practices and resources utilized to protect government owned facilities, equipment, and other interests at Ames National Laboratory from loss or damage due to intrusion, theft, disruption, unauthorized access to intellectual and proprietary information and other threats.

In summary, each of these documents serves to enhance the Laboratory's ability to react and respond to any number of potential incidents from a variety of threats. The threats, risks and vulnerabilities are identified in each specific plan along with the mitigation and response strategies to include continuity operations, identified alternate capabilities through internal or external resources, planning, preparedness, and response.

6.2. Continuous Release Reporting

Ames National Laboratory did not engage in continuous release activities in 2025.

6.3. Unplanned Releases

There were no planned, unplanned, or accidental releases involving hazardous substances from Ames National Laboratory in 2025.

6.4. Summary of Permits

DOE held three waste generator identification numbers for Ames National Laboratory in 2025 (see table 6.4-1 below), although two of the sites were inactive. In 2006, the Laboratory was reclassified from Large Quantity Generator (LQG) RCRA status to Small Quantity Generator (SQG) status.

In 2025, Ames National Laboratory had one air emission source construction permit and nine exempt sources (see table 6.4-2 below). Ames had no environmental discharge, operational, storage, treatment or disposal permits for gaseous, liquid, or solid effluents.

Table 6.4-1 DOE RCRA Generator Identification Numbers

RCRA Generator ID #	Type	Ames Laboratory Facility/Area	Expiration
IA6890008950	SQG	Ames Lab #3-DOE (main campus)	None
IAVSQG	VSQG	Sensitive Instrument Facility (SIF)	None
*IAD984617605	VSQG	Ames Lab#1-DOE (Waste Handling Facility)	None
*IA0000365973	SQG	Ames Lab#2-DOE/ISU (Chemical Disposal Site)	None

*Both sites have been designated by the EPA as "non-generators."

Table 6.4-2 Ames National Laboratory Air Emission Sources

DESCRIPTION	PERMIT NUMBER	LOCATION	REGULATORY CITATION
Paint Spray Booth – Construction Permit	96-A-1282	Paint Booth	567 IAC 22.3 and IAC 23.4(13)
Graphite Lathe – Exempt	NA	Metals Development Building	567 IAC 22.1(2)u
Dust Collector – Exempt	NA	Wood Shops	567 IAC 22.1(2)u
Compactor – Small Unit Exemption	NA	Mechanical Maintenance Building – RWA	567 IAC 22.1(2)w(l)
Engineering Services Shop Exhaust – Exempt	NA	Metals Development Building – 160	567 IAC 22.1(2)u
Engineering Services Shop Welders – Exempt	NA	Metals Development Building – 160	567 IAC 22.1(2)p
Diesel Generators – Exempt	NA	Wilhelm Hall, SIF	567 IAC 22.1(2)r
Canopy Hood in Paint Shop – Small Unit Exemption	NA	Paint Shop	567 IAC 22.1(2)w(1)
Laboratory Fume Hoods – Exempt	NA	SPH, HWH, MD, SIF	567 IAC 22.1(2)s
Alleghany hard drive shredder	NA	Warehouse	567 IAC 22.1(2)l

7.0 ENVIRONMENTAL MANAGEMENT SYSTEM

The Laboratory's environmental aspects have not changed significantly over the past several years, and with the integration of the EMS into the Laboratory's ISMS, there are mechanisms in place to detect new environmental aspects and impacts. The Laboratory's Environmental Management System Steering Committee (EMSSC) includes at least one representative from each of the following: Science, Facilities & Engineering Services, Procurement, Information Technology, and Environment, Safety & Health (ESH). A representative from ESH serves as the Chair. This committee is tasked with recommending targets and objectives to the Laboratory's Executive Council. Due to DOE Order 436.1A (Departmental Sustainability) being revoked on 1/30/2025, Ames National Laboratory has currently suspended the Laboratory's EMSSC. Although the committee is not meeting, the Laboratory still strives to meet required sustainability goals and support environmental compliance.

Goals for 2025 included continue upgrading heating, ventilation, and air conditioning (HVAC) systems in research buildings and expanding electronic recycling options to employees for privately owned discarded electronic items.

The committee has identified longer-term goals that remain ongoing initiatives, such as the objectives reported within the Site Sustainability Plan.

7.1. Environmental Operating Experience and Performance Measurement

In calendar year 2025, Ames National Laboratory reported to DOE-AMSO through the Laboratory's Performance Evaluation and Measurement Plan (PEMP) and DOE's Sustainability Dashboard. The Laboratory was awarded an 'A-' for Goal 5: *Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection*, within the PEMP report card. As reported through the DOE Sustainability Dashboard, the Laboratory met 75% of Site Sustainability Plan objectives.

The Laboratory's EMS was last reviewed by DOE in June 2024 to determine conformance to ISO14001:2015 (see DOE Correspondence in Appendix C). The Laboratory maintains a strong recycling program and culture and strives to help meet DOE sustainability goals. The review team identified five Level 3 Findings (opportunities for improvement) based on the requirements of ISO 14001:2015. The identified opportunities for improvement were addressed via corrective actions and integrated into the EMS.

7.2. Accomplishments, Awards, and Recognition

Ames National Laboratory was recognized for one strength during the June 2024 EMS conformance assessment. The implementation of Lab-wide Safety Days, which began in 2023 and continues today, has positively impacted EMS considerations (e.g., electronic recycling, laboratory clean-outs, etc.) and supports Ames' commitment to protecting the environment through electronic stewardship and waste management.

8.0 ENVIRONMENTAL RADIOLOGICAL PROTECTION PROGRAM

8.1. Radiological Discharges and Doses

There were no point source releases from the Ames National Laboratory complex in 2025. Diffuse source emissions were limited to low-level waste activities and renovation activities. Emissions from these activities were minimized or eliminated by engineering devices/structures, when necessary (e.g., containment cells with HEPA filtration).

The annual radionuclide NESHAP report was prepared using the guidance in 40 CFR 61.94. According to the guidance and based on the isotope inventory in curies per year used at the Laboratory, air emissions were not required to be monitored. IDNR and Iowa Department of Public Heath (IDPH) do not require permits or monitoring for laboratory fume hoods under Chapter 20 IAC 567 22.1(2) (1). However, Appendix D to 40 CFR Part 61 does provide a method for estimating the radionuclide emissions for a year, for reporting

purposes, based on the amount of radionuclides in curies used at a facility.

Prescribed parameters were used to calculate potential dose equivalent to the public due to estimated radionuclide emissions from the Laboratory (See correspondences in Appendix A).

8.2. Clearance of Property Containing Residual Radioactive Material

Ames National Laboratory has approved Authorized Limits established in accordance with DOE Order 458.1, 2.k.(6)(f), CRD, for all release and clearance of real and personal property. DOE O 458.1, *Radiation Protection of the Public and the Environment*, was incorporated into the Laboratory's contract on October 22, 2012. The Environmental Radiation Protection Plan (Plan 10200.004) demonstrates that the Laboratory has plans, policies and procedures in place for monitoring the release of radiologically contaminated property in accordance with DOE O 458.1. No real and/or personal property containing residual radioactive material associated with DOE activities was released to the public in 2025.

Ames National Laboratory, DOE, and ISU have addressed all known contaminated sites in or near the City of Ames. The IDNR has released a total of 12 Inactive Waste Sites (see correspondence in Appendix B). The status of the sites released are as follows:

SITE	RELEASE STATUS	DATE RELEASED
Old Sewage Plant	Unrestricted Use	1995
Grand Avenue Underpass	Unrestricted Use	1996
Ames Municipal Cemetery	Unrestricted Use	1996
Applied Sciences Complex	Unrestricted Use	1996
Block House	Unrestricted Use	1996
Little Ankeny Debris	Unrestricted Use	1996
Annex I	Approved for Current Use	1996
Annex II	Approved for Current Use	1996
Ames Municipal Airport	Approved for Current Use	1996
Chemical Disposal Site	Unrestricted Use	1998
Former Iowa State College Dump Site	Unrestricted Use	2001
Fire Service Institute Training Area	Unrestricted Use	2002

Additional information regarding these sites can be found in previous Site Environmental Reports, by contacting Ames National Laboratory Communications at 515-294-1048, or by visiting the Laboratory's webpage.

8.3. Unplanned Radiological Releases

There were no planned, unplanned, or accidental radiological releases from Ames National Laboratory in 2025.

8.4. Environmental Radiological Monitoring

Ames National Laboratory performed no storm water, sanitary sewer water or environmental air sampling in 2025 as there were no activities that warranted monitoring. The City of Ames and ISU sampled the University's wastewater effluent using EPA protocols and methods in 2025 as part of ISU's pretreatment agreement with the City of Ames.

9.0 NON-RADIOLOGICAL ENVIRONMENTAL MONITORING

The Laboratory has one air permit (paint booth) that requires mass balance monitoring. An annual log is required for the air permit. Material quantities and duration are included in the log.

The log is monitored and reviewed to verify the Laboratory is not exceeding its permitted limits. Limits were not exceeded in 2025.

There is no per- and polyfluoroalkyl substances (PFAS) contamination at Ames National Laboratory. Ames National Laboratory has never had an on-site fire department or conducted on-site firefighting drills.

The Laboratory does not perform any other non-radiological monitoring (i.e. air, water or soil sampling).

10.0 GROUNDWATER PROTECTION PROGRAM

There are no current Ames National Laboratory activities that pose a hazard to groundwater or surface water. The Laboratory has no underground storage tanks. Three DOE owned monitoring wells were plugged and abandoned in June 2005. Currently there is no monitoring of the groundwater and ISU is not required to monitor groundwater on the main campus.

11.0 QUALITY ASSURANCE

Quality Assurance at Ames National Laboratory is implemented through the Quality Assurance Program Plan (10200.026). This plan outlines the policies, procedures, training and inspection, and testing requirements for equipment and processes within the Laboratory.

Radioactive sources and solutions used to calibrate radiation-detection instrumentation are obtained with quantitative calibration directly traceable to the National Institute of Standards and Technology. Ames National Laboratory's quality assurance effort relies on established U.S. EPA, IDNR, IDPH, and DOE regulations, standards, and methods. This applies to both radioactive and non-radioactive environmental sampling and analyses.

Ames National Laboratory's air quality assurance measures consist of maintaining an exhaust hood inventory, maintaining a radiological material balance, tracking chemicals, and waste collection, and management. These measures determine if the Laboratory has a source in need of monitoring or permitting, in accordance with IDNR guidance. The Laboratory uses EPA's COMPLY modeling program, when necessary, to produce the annual NESHAP report (See Appendix A).

In 2025, the Laboratory continued to evaluate hazards and risks and develop controls associated with all activities through established Work Planning and Control (WPC) processes (Procedure 10200.010). WPC reviews help prevent and/or control releases of hazardous materials into the environment. The WPC program was developed to ensure that evaluations and controls are applied to activities commensurate with associated risks. Thirty-four activities were reviewed and approved in 2025. Approved activities are reviewed on a one-, three-, or five-year cycle based on the hazard level assigned to that activity.

Line management holds research group leaders responsible for ensuring that measuring and testing equipment (MTE) is of the proper type, accuracy, and tolerance to accomplish the specified requirements.

12.0 REFERENCES

1. Ames City Manager's Office, demographic information
2. Ames National Laboratory Site Environmental Reports
3. City of Ames and ISU Pretreatment Agreements
4. DOE Order 231.1B, *Environment, Safety and Health Reporting*

5. DOE Order 458.1*, Radiation Protection of the Public and the Environment*
6. DOE Order 474.2, *Nuclear Material Control and Accountability*
7. DOE Order 436.1, *Departmental Sustainability*
8. Characterization Report for the Ames Laboratory Chemical Disposal Site, Iowa State University, September 1998
9. Iowa Administration Code, Rule 567, Chapters 20-24 and 28, *Air Quality*
10. Iowa Administration Code, Rule 567, Chapter 60, *Wastewater Treatment and Disposal: Definitions, Rules of Practice*
11. Iowa Administration Code, Rule 567, Chapter 61, *Water Quality Standards*
12. Iowa Administration Code, Rule 567, Chapter 100, 101, 109, 118, 119, *Solid Waste Management and Disposal*
13. Iowa Administration Code, Rule 567, Chapter 131, *Notification of Hazardous Conditions*
14. Iowa Administration Code, Rule 567, Chapter 133, *Rules for Determining Cleanup Actions and Responsible Parties*
15. 10 CFR Part 1021, *National Environmental Policy Act Implementation Procedures*
16. 10 CFR Part 835, *Occupational Radiation Protection*
17. 29 CFR Part 1910.120, *Hazardous Waste Operations and Emergency Response*
18. 40 CFR Part 63, *National Emission Standards for Hazardous Air Pollutants for Source Categories*
19. 40 CFR Part 82, *Protection of Stratospheric Ozone*
20. 40 CFR Part 112, *Oil Prevention; Spill Prevention, Controls and Countermeasures*
21. 40 CFR Part 131, *Water Quality Standards*
22. 40 CFR Part 141, *National Primary Drinking Water Regulations*
23. 40 CFR Parts 260-264 (subpart S), 265 and 268, *Hazardous Waste Implementing Rules*
24. 40 CFR Part 279, *Standards for the Management of Used Oil*
25. 40 CFR Part 300, *National Oil and Hazardous Substances Pollution Contingency Plan*
26. 40 CFR Part 302, *Designation, Reportable Quantities and Notification*
27. 40 CFR Part 355, *Emergency Planning and Notification*
28. 40 CFR Part 761, *Polychlorinated Biphenyls (PCBs) Manufacturing, Processing Distribution in Commerce and Use Prohibitions*
29. Consent Agreement and Consent Order, executed February 27th, 1996

13.0 LIST OF ACRONYMS

ACM: Asbestos Containing Material

AFFECT: Assisting Federal Facilities with Energy Conservation

AHPB: All Hazards Planning Basis

AHS: All Hazards Survey

AIM: Ames Infrastructure Modernization

ALCATS: Ames Laboratory Corrective Action Tracking System

AMSO: Ames Site Office

CAA: Clean Air Act and Amendments

CAG: Community Advisory Group for Ames Laboratory environmental activities

CDS: Chemical Disposal Site

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act

CFR: Code of Federal Regulations

CG: Concentration guide, DOE derived

Ci: Curie, 3.7E10 disintegrations per second

CRD: Contractor Required Documents

CWA: Clean Water Act

CX: Categorical Exclusion, a class of activities determined to have no environmental impact

DOE: U.S. Department of Energy

EEOICPA: Energy Employees Occupational Illness Compensation Program Act

EIS: Environmental Impact Statement

EMR: Environmental Management Review

EMS: Environmental Management System

EMSSC: Environmental Management System Steering Committee

EPA: U.S. Environmental Protection Agency

EPCRA: Emergency Planning and Community Right to Know Act

ERPP: Environmental Radiological Protection Plan

ESA: Endangered Species Act

ESH: Environment, Safety, and Health office of Ames Laboratory

FFCA: Federal Facilities Compliance Act

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

FS: Feasibility Study

FSP: Field Sampling Plan

GOCO: Government Owned, Contractor Operated facility

GSB: Geological Survey Bureau

GSR: Green and Sustainable Remediation

HEPA: High-Efficiency Particulate Air, a filter element or filtration system

HPSB: High Performance Sustainable Building

HVAC: Heating, Ventilation, and Air Conditioning

HQ: Headquarters of U.S. Department of Energy

IAC: Iowa Administration Code

IDNR: Iowa Department of Natural Resources

ISMS: Integrated Safety Management System

ISU: Iowa State University

IWS: Inactive waste site

LDR: Land Disposal Restriction

LEED: Leadership in Energy and Environmental Design

LLW: Low-Level Radioactive Waste

LQG: Large Quantity Generator

MBTA: Migratory Bird Treaty Act

MCL: Maximum Contaminant Level

mg/L: milligrams per liter; equivalent to ppm

MOUs: Memorandum of Understandings

MPC: Materials Preparation Center

mrem: millirem

MS4: Municipal Separate Storm Sewer System

mSv: millisievert, 10^{-3} Sieverts

NEPA: National Environmental Policy Act

NESHAP: National Emission Standards for Hazardous Air Pollutants

NHPA: National Historic Preservation Act

NOV: Notice of Violation

NPDES: National Pollutant Discharge Elimination System

NRC: Nuclear Regulatory Commission

NREL: National Renewable Energy Laboratory

ODS: Ozone Depleting Substance

PCB: Polychlorinated Biphenyls

pCi: picocurie, 10^{-12} Curies

PEMP: Performance Evaluation and Measurement Plan

PFAS: Per- and Polyfluoroalkyl Substances

PIDS: Performance Indicator Database System

QA: Quality Assurance

QAP: Quality Assessment Program, DOE

RCRA: Resource Conservation Recovery Act

RECs: Renewable Energy Credits

Rem: Roentgen equivalent man, radiation dose

RESRAD: Residual Radiation Model for Sites

RI: Remedial Investigation

RPP: Radiological Protection Plan, for Ames Laboratory

SARA: Superfund Amendments and Reauthorization Act

SDWA: Safe Drinking Water Act

SER: Site Environmental Report

SHPO: State Historical Protection Officer

SPCC: Spill Prevention, Control, and Countermeasure

SQG: Small Quantity Generator

TSCA: Toxic Substances Control Act

TASF: Technical and Administrative Support Facility, the Ames Laboratory office building
TCLP: Toxicity Characteristic Leaching Procedure
THIRA: Threat/Hazard Identification and Risk Assessment
TPQ: Threshold-Planning Quantity
TRU: Transuranic Waste
TSCA: Toxic Substances Control Act
USGS: U.S. Geological Survey
VSQG: Very Small Quantity Generator
WAS: Work Authorization System of Ames Laboratory
WHF: Waste Handling Facility

14.0 DISTRIBUTION

ORGANIZATION	
Samuel Bigger AMSO Manager	Ames National Laboratory – Ames Site Office 2408 Pammel Dr. / 305 TASF Ames, IA 50011 samuel.bigger@doe.gov
Joseph Nolin AMSO Facility Representative	Ames National Laboratory – Ames Site Office 2408 Pammel Dr. / 306 TASF Ames, IA 50011 joseph.nolin@doe.gov
Jeff Bartine AMSO ESH – Program Manager	Ames National Laboratory – Ames Site Office 2408 Pammel Dr. / 305 TASF Ames, IA 50011 jeff.bartine@doe.gov
Eileen Liao Chief Counsel	Office of Chief Counsel DOE - Chicago Office 9800 South Cass Avenue Argonne, IL 60439 eileen.liao@doe.gov
Stephanie K. Martin Acting Director	Office of Environment, Health, Safety and Security 1000 Independence Ave SW Washington, DC 20585 stephanie.martin@doe.gov
Garrett Smith Acting Deputy Director	Office of Environment, Health, Safety and Security 1000 Independence Ave SW Washington, DC 20585 garrett.smith@doe.gov
John S. Boulden III Deputy Director for Security	Office of Environmental Health, Safety and Security 1000 Independence Ave SW Washington, DC 20585 john.boulden@.doe.gov
Michael J. Silverman Director	Office of Environmental Protection and ES&H Reporting 1000 Independence Ave SW Washington, DC 20585 josh.silverman@doe.gov
Kristoffer Hewitt Director	Office of Sustainable Environmental Stewardship 1000 Independence Ave SW Washington, DC 20585 kristoffer.hewitt@doe.gov

Una Song ASER Program Manager	Office of Sustainable Environmental Stewardship 1000 Independence Ave SW Washington, DC 20585 una.song@doe.gov
Tom Carver Director	Office of Public Radiation Protection 1000 Independence Ave SW Washington, DC 20585 tom.carver@doe.gov
Colette Broussard Director	Office of ES&H Reporting and Analysis 1000 Independence Ave SW Washington, DC 20585 colette.broussard@doe.gov

EXTERNAL	
Gene Gunn Chief	USEPA Region 7 Mail Code: SEMDIO 11201 Renner Blvd. Lenexa, KS 66219 gunn.gene@epa.gov
Rebecca Weber	USEPA Region 7 Mail Code: ORAIO 11201 Renner Blvd. Lenexa, KS 66219 weber.rebecca@epa.gov
Patricia Riesberg Bureau Chief Radiological Health	Iowa Department of Public Health and Human Services 5th Floor Lucas State Office Building 321 East 12th Street Des Moines, IA 50319 patty.riesberg@hhs.iowa.gov
Paul Richmond Assistant Vice President	Environmental Health and Safety Iowa State University 1122 EHSSB Ames, IA 50011-3660 perichm@iastate.edu
Charles Grassley Senator	201 West 2nd Street Suite 720 Des Moines, IA 52801
Joni Ernst Senator	733 Federal Building 210 Walnut Street Des Moines, IA 50309
Randy Feenstra Representative	Fort Dodge District Office 723 Central Avenue Fort Dodge, IA 50501
Herman Quirmbach State Senator	Senate Chambers State House Des Moines, IA 50319-0001 herman.quirmbach@legis.state.ia.us
Ross Wilburn State Representative	State Capital Des Moines, IA 50319 ross.wilburn@legis.state.ia.us

AMES NATIONAL LABORATORY COMMUNITY ADVISORY GROUP	
Joe Lynch	3700 Onion Creek Lane Ames, IA 50014
AMES NATIONAL LABORATORY MANAGEMENT AND DISCIPLINE SPECIALISTS	
Karl Mueller Director	karlm@ameslab.gov
Chelsey Aisenbrey Chief Operation Officer	chelseya@ameslab.gov
James Morris Chief Research Officer	morrisj@ameslab.gov
Laura Millsaps Communications Manager	millsaps@ameslab.gov
Julienne Krennrich Director of Strategic Innovation Partnerships	jmkrenn@ameslab.gov
Kyle Dagestad Director of Safety and Security Services	kdag@ameslab.gov
Clay Miller Assistant ESH Director	crmiller@ameslab.gov
Don Fortmann Environmental Engineer, ESH	fortmann@ameslab.gov
Mike McGuigan Radiation Safety Officer, ESH	mcguigan@ameslab.gov
Zhengzheng Xu Learning & Development Specialist	zzxu@ameslab.gov
Molly Granseth Assurance Manager, PM	mgrans@ameslab.gov
Christine Reinders-Caron Engineering Manager, FES	creinder@ameslab.gov

APPENDIX A: U.S. Department of Energy Air Emissions Annual Report Calendar Year 2025

AMES NATIONAL LABORATORY
Creating Materials & Energy Solutions

U.S. Department of Energy
Air Emissions Annual
Report Calendar Year 2025

SECTION I

Facility Information

Site Name:	Ames National Laboratory, Iowa State University	
Operations Office:	Ames Site Office	
Address:	Iowa State University, 2408 Pammel Dr., 305 TASF Ames, IA 50011	
Contact:	Sam Bigger	Phone: 630-549-9831
Site Operator:	Iowa State University	
Site Address:	Iowa State University, 2408 Pammel Dr., G40 TASF Ames, IA 50011	
Contact:	Don Fortmann	Phone: 515-294-7926

Site Description:

The Ames National Laboratory is located on the campus of Iowa State University (ISU) in Ames, Iowa. The Ames National Laboratory is operated by ISU for the Department of Energy (DOE) under contract No. DE-AC02-07CH11358 in 2025. There are twelve buildings owned by the DOE. The Ames National Laboratory conducts basic and early-stage research in chemical, physical, mathematical, and engineering sciences that underlie energy technologies and other areas of national importance.



SECTION II

Methods for Dose Assessment/Air Emissions Data

1) There were no activities resulting in radioactive air emissions from Ames National Laboratory activities during Calendar Year 2025 based on a review of research and operations.

2) Ames National Laboratory does not have a registered radioactive air emissions unit.

3) Ames National Laboratory's limited annual possession quantities are less than 40 CFR Part 61 Appendix E limits which demonstrates compliance with the 10 mrem/yr dose standard for the general public.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. (See, 18 U.S.C. 1001).

Name: Dr. Karl Mueller Title: Director, Ames National Laboratory

Signature: _____ Date: 01/14/2026

APPENDIX B: INACTIVE WASTE SITE CORRESPONDENCES

1. Letter from IDPH, Closure of nine sites, January 11, 1996
2. Letter from IDPH granting “unrestricted” release of the CDS, October 15, 1998
3. Letter from IDPH, Closure of the Former Iowa State College Dump Site, September 17, 2001
4. Letter from IDPH, Closure of the Fire Service Institute Training Area, February 26, 2002

STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
CHRISTOPHER G. ATCHISON, DIRECTOR

January 11, 1996

Warren R. Madden
Vice President for Business and Finance
Iowa State University
125 Beardshear Hall
Ames, Iowa 50011-2038

Dear Mr. Madden:

Reference is made to your letter of January 5, 1996 in which you request our concurrence on the status of nine inactive waste sites which we possibly contaminated with radioactive materials as a result of the operation of Ames Laboratory as a DOE contractor in the past. Listed below are the sites by name and our conclusions as to the status of the site regarding closure.

1. Ames Old Waste Water Treatment Facility (WWTF): Met criteria for unrestricted use per Department letters to the city of Ames dated June 16, 1994 and February 17, 1995.

2. Grand Avenue Under Pass: Based on the data provided by DOE, ISU and data collected by this Department this area meets the criteria for unrestricted use. In fact, there is information which indicates that this area never was subjected to the spreading of contaminated sludge from the WWTF.

3. Ames Municipal Cemetery: Based on the date provided by DOE, ISU and data collected by this Department this area meets the criteria for unrestricted use. In fact, there is information which indicates that this area never was subjected to the spreading of contaminated sludge from the WWTF.

4. Applied Science Center: Based on the data provided by DOE, ISU and data collected by this Department, this area meets the criteria for unrestricted use.

5. Block House Area : Based on the data provided by DOE, ISU and data collected by this Department, this area meets the criteria for unrestricted use.

6. Little Ankeny Debris Site: Based on the data provided by DOE, ISU and data collected by this Department, this area meets the criteria for unrestricted use.

7. Annex I: Based on the data provided by DOE, ISU and data collected by this Department, this area can be used as it is now, in perpetuity, without public health concerns. However, if the site is developed for any other purpose additional surveys or sampling will be necessary to confirm that if residual radioactive material exists it is not in amounts which could be of public health concern during the developmental process.

8. Annex II: : Based on the data provided by DOE, ISU and data collected by this Department, this area can be used as it is now, in perpetuity, without public health concerns. However, if the site is developed for any other purpose additional surveys or sampling will be necessary to confirm that if residual radioactive material exists it is not in amounts which could be of public health concern during the developmental process.

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9. Ames Municipal Airport: Based on the data provided by DOE, ISU and data collected by this Department, this area can be used as it is now, in perpetuity, without public health concerns. However, if the site is developed for any other purpose additional surveys or sampling will be necessary to confirm that if residual radioactive material exists it is not in amounts which could be of public health concern during the developmental process.

Based on the above, it is my opinion that we concur with the University's decision to bring the nine sites to closure with the special provisions placed on Annex I, II and the Airport. I would like to take this opportunity to thank you, the ISU Staff and the Ames Laboratory Staff who have assisted in working through the long laborious process of reading the conclusions. We certainly look forward to working with all of you in the future. If you have question regarding the above, please do not hesitate to contact me.

Sincerely,

Donald A. Flater, Chief
Bureau of Radiological Health
(515) 281-3478

cc: E. Sobottka, ISU
Tom Newman, City of Ames
Dr. Tom Barton, Ames Laboratory

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STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
CHRISTOPHER G. ATCHISON, DIRECTOR

October 15, 1998

Emery Sobottka
Iowa State University
118 Agronomy Laboratory
Ames, Iowa 50011-3200

Dear Mr. Sobottka:

This correspondence refers to the "Characterization Report for the Ames Laboratory Chemical Disposal Site—Iowa State University." You submitted that report to us under cover of your letter dated September 30, 1998.

We have read and reviewed the report and analyzed the data. We agree with your conclusions and recommendations.

The site, known as the Ames Laboratory Chemical Disposal Site, meets the standards for unrestricted use. Additionally, we concur with your recommendation that the groundwater sampling frequency be reduced to annual. This sampling will continue until 2002.

If you have any questions or comments, please call Dan McGhee or me at (515)281-7007.

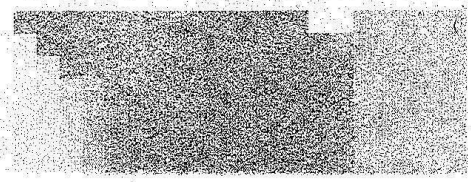
Sincerely,

Donald A. Flater, Chief
Bureau of Radiological Health

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STATE OF IOWA

THOMAS J. VILSACK
GOVERNOR

SALLY J. PEDERSON
LT. GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
STEPHEN C. GLEASON, D.O., DIRECTOR

September 17, 2001

David Inyang, Ph.D., RSO
Iowa State University
118 Agronomy Lab.
Ames, Iowa 50011

Dear Dr. Inyang:

This correspondence refers to your letter to me dated August 22, 2001. In that letter you enclosed a report entitled, "Review and Assessment of the Former Iowa State College Dump Site." This report detailed the actions taken to assess the radiological hazard at that site. Your letter requested that we review and comment on the report.

The report references and analyzes the results of soil sampling at the former dumpsite. We have reviewed this data and your conclusions. We agree that the data does show that the former Iowa State College Dump Site meets the standards for unrestricted use.

We wish to remind you that our conclusions speak only to radiological standards and do not address heavy metals or organic compounds.

If you have any questions, please contact Dan McGhee at 515-725-0305 or me.

Sincerely,

Donald A. Flater

Donald A. Flater, Chief
Bureau of Radiological Health
(515) 281-3478

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DIV. OF ADMINISTRATION & REGULATORY AFFAIRS 515-281-5784 FAX/515-281-4958
DIV. OF ENVIRONMENTAL HEALTH 515-281-5784 FAX/515-281-4958
DIV. OF FAMILY & COMMUNITY HEALTH
DIV. OF HEALTH PROMOTION, PREVENTION & ADDICTIVE BEHAVIORS 515-281-3641
DIV. OF TOBACCO USE PREVENTION & CONTROL 515-281-6225

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Fields of Opportunities

STATE OF IOWA

THOMAS J VILSACK
GOVERNOR

SALLY J PEDERSON
LT GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
STEPHEN C GLEASON D O DIRECTOR

February 26, 2002

David Inyang, Ph D
Director, Environmental Health and Safety
Iowa State University
118 Agronomy Lab
Ames, Iowa 50011-3200

RE Release of site for unrestricted use

Dear Dr Inyang

This correspondence refers to your letter, dated February 20, 2002, to me In that letter you transmitted the "Final Status Survey Report for Fire Service Institute Training Area Iowa State University" You also requested "the site be released for unrestricted use"

We have reviewed the report and agree with your conclusion that the site meets the standards for unrestricted use You may refer to these standards in the Iowa Administrative Code 641-40 29(136C) We cannot, however, "release" this site because it was never restricted We reiterate, though, that the data demonstrates compliance with unrestricted use

If you have any questions, please contact Dan McGhee at 515-725-0305 or me

Sincerely,

Donald A Flater, Chief
Bureau of Radiological Health
515-281-3478
515-725-0318 – FAX
dflater@idph state ia us

DAF/rk

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DIV OF COMMUNITY HEALTH 515-281-6535 FAX/515-242 6384
DIV OF HEALTH PROTECTION & ENVIRONMENTAL HEALTH 515-281-7726 FAX/515 281-4529
DIV OF HEALTH PROMOTION PREVENTION & ADDICTIVE BEHAVIORS 515-281-3641 FAX/515-281-4535
DIV OF TOBACCO USE PREVENTION & CONTROL 515-281-8225 FAX/515-281-6475
Bureau of Radiological Health 401 SW 7th Street Suite D Des Moines IA 50309 Internet Address idph state ia us/pa/rh htm

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APPENDIX C: EPA AND DOE CORRESPONDENCES

1. DOE-AMSO memorandum approving Laboratory's EMS, September 26, 2024
2. EPA letter (RCRA Inspection), September 24, 2019

Department of Energy

Office of Science

Ames Site Office

September 26, 2024

MEMORANDUM TO: FILE

FROM: SAMUEL BIGGER
MANAGER, AMES SITE OFFICE

Samuel Bigger

Digitally signed by Samuel Bigger
Date: 2024.09.26 10:35:10 -05'00'

SUBJECT: DECLARATION THAT AMES NATIONAL LABORATORY ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMS TO THE ISO 14001:2015 STANDARD

This memorandum documents that the Environmental Management System (EMS) for Ames National Laboratory conforms to the International Organization for Standardization's (ISO) 14001:2015 standard, on the basis of the results of a formal audit by a qualified party outside the control or scope of the EMS, and of my oversight of the EMS. This satisfies the requirements of DOE O 436.1A, §§ 4.d.(1) and 5.f.(2).

The audit was conducted on June 3-6, 2024. The audit report is attached. Based on my review of the audit results, and the Ames Site Office oversight of the EMS, I find that the EMS conforms to the ISO 14001:2015 standard.

The scope of the EMS includes research and development, manufacturing, waste management, and site infrastructure management across the Ames Laboratory campus in accordance with contract number DE-AC02-07CH11358 between Iowa State University and the Department of Energy.

Attachment:
FY 2024 AMES Laboratory EMS Independent External Assessment Report Final

cc w/attach:
J. Fontainne, SC-DDO
K. Hewitt, EHSS-21
U. Song, EHSS-21
I. Heilman, SPO
P. Siebach, SC-OSS
J. Bartine, AMSO
C. Aisenbrey, Ames Lab
K. Dagestad, Ames Lab
C. Miller, Ames Lab
D. Fortmann, Ames Lab

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

SEP 2 4 2019

Mr. Sean Whalen
Manager, ESH & Emergency Management
Ames Laboratory – DOE
Iowa State University
2408 Pammel Drive
Ames, Iowa 50063
RCRA ID No.: IA6890008950

Dear Mr. Whalen:

On June 10, 2019, a representative of the U.S. Environmental Protection Agency inspected the referenced facility. The inspection was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act. A copy of the inspection report is enclosed for your information.

The EPA has reviewed the inspection report and determined that violations were documented. At the time of the inspection, the inspector presented you with a Notice of Preliminary Findings which described the violations. The EPA has reviewed your June 12, 2019, response to the violations and determined that it adequately addressed the violations. Therefore, no further submittals are required at this time. Please note that the EPA reserves its right to pursue appropriate enforcement actions.

I would also like to make you aware of revisions to the hazardous waste regulations that went into effect at the end of May 2017. The following link will take you to a web site where you can find links to the new regulations, summaries of the changes to the regulations, and other helpful information:

https://www.epa.gov/hwgenerators/final-rule-hazardous-waste-generator-improvements

Additionally, the new electronic manifest system launched on June 30, 2018. This system allows users of hazardous waste manifests to generate, track, receive, and submit manifests electronically on-line through the system. This system can assist generators with manifest record keeping requirements. For additional information on e-manifest, please visit our websites:

National website: https://www.epa.gov/e-manifest
EPA Region 7 website: https://www.epa.gov/ks/e-manifest

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I would like to remind you that the referenced facility is responsible for maintaining compliance with all applicable hazardous waste regulations. If there are any questions regarding this letter, please contact Rebecca Wenner, of my staff, at (913) 551-7644, or by email at wenner.rebecca@epa.gov.

Sincerely,



DeAndrè Singletary
Acting Director
Enforcement and Compliance Assurance Division

cc: Amie Davidson, Supervisor, Solid Waste and Contaminated Sites Section
Iowa Department of Natural Resources